

Figure 1

BEST AVAILABLE COPY

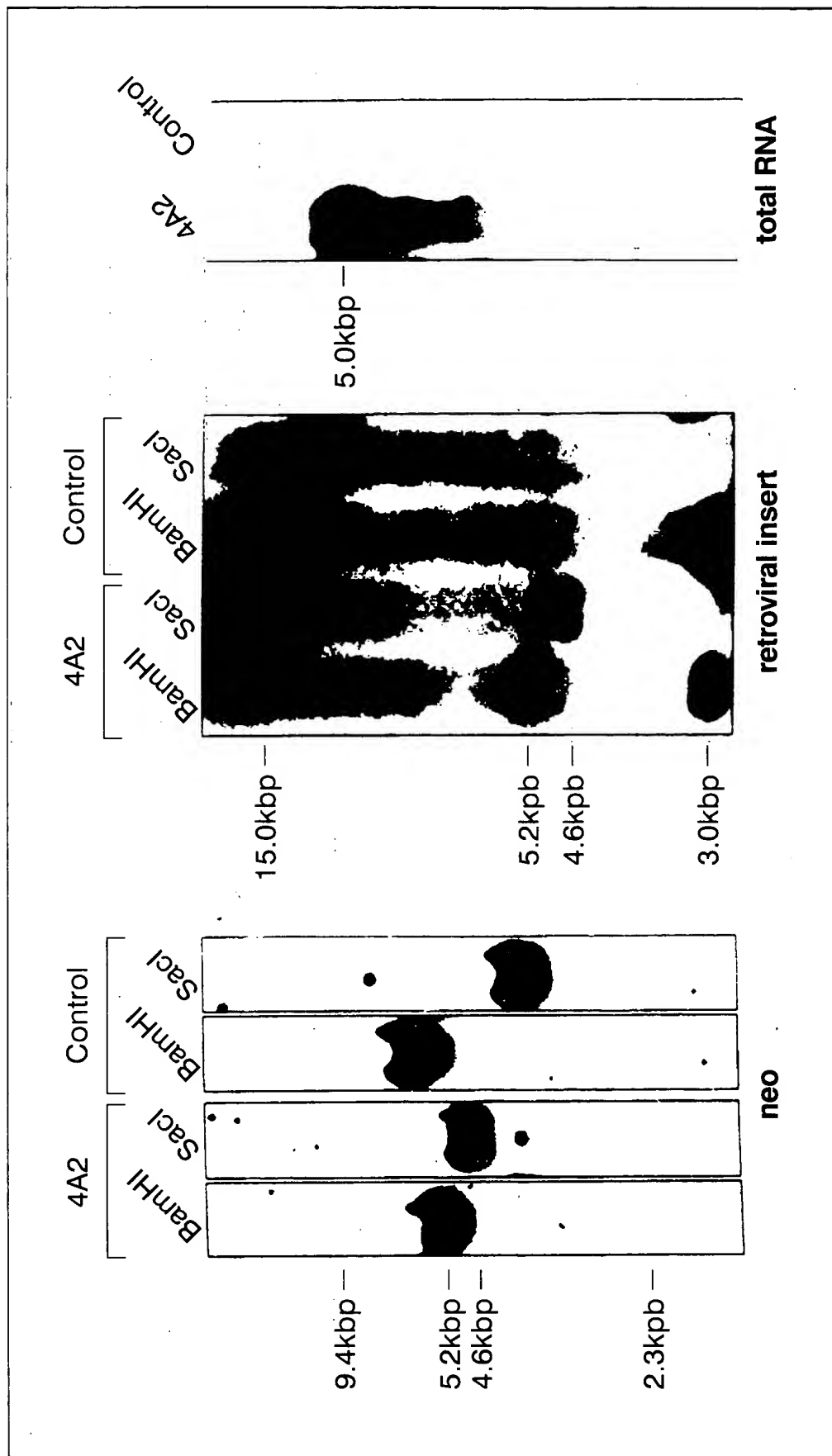


Figure 2

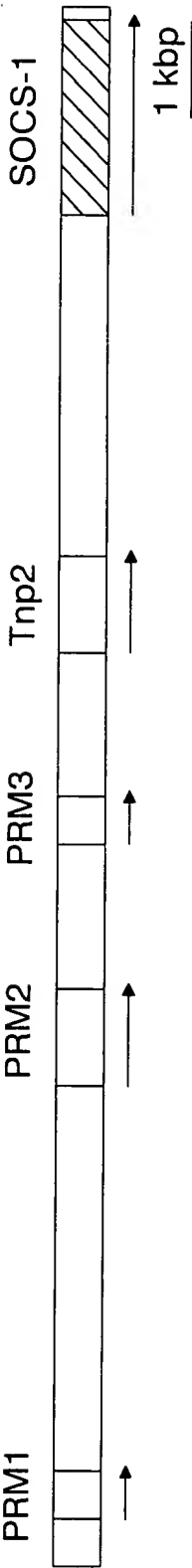


Figure 3A

-159 cgaggctcaagctccgggaggattctgctgccgctctcg
-120 ctccttggggtctgttggccggcctgtgccaccggacgccggctcactcctctgtct
-60 ccccatcagcgagccccggagcgtatgcccacccctccagctgccccctcgagtagg

1 ATGGTAGCACGCAACCAGGTGGCAGCCGACAAATGCGATCTCCCCGGCAGCAGAGCCCCGA
1 MetValAlaArgAsnGlnValAlaAlaAspAsnAlaIleSerProAlaAlaGluProArg

61 CGGCGGTCAGAGCCCTCCTCGTCTCGTCTTCTGCTCCGCGCAGCGGCCCTCGTGGTCCC
21 ArgArgSerGluProSerSerSerSerSerSerProAlaAlaProValArgPro

121 CGGCCCTGCCCGGGTCCCAGCCCCAGCCCCCTGGCGACACTCACTTCCGCACCTTCCGC
41 ArgProCysProAlaValProAlaProAlaProGlyAspThrHisPheArgThrPheArg

181 TCCCACTCCGATTACCGGCGCATCACGCGGACACGCGGCTCCTGGACGCCCTGCGGGCTTC
61 SerHisSerAspTyrArgArgIleThrArgThrSerAlaLeuLeuAspAlaCysGlyPhe

241 TATTGGGGACCCCTGAGCGTGCACGGGGCGCACGAGCGGCTCCTGGACGCCCTGCGGGCTTC
81 TyrTrpGlyProLeuSerValHisGlyAlaHisGluArgLeuArgAlaGluProValGly

301 ACCTTCTTGGTGGCGACAGTCGTCAACGGAACCTGCTTCTTCGCGCTCAGCGTGAAGATG
101 ThrPheLeuValArgAspSerArgGlnArgAsnCysPhePheAlaLeuSerValLysMet

A - - - - - A

Figure 3B(1)

A - - - - - A

361	GCTTCGGGCCCCACGAGCATCCGCGTGCACTTCCAGCGCGCGCTTCCACTTGGACGGC
121	AlaSerGlyProThrSerIleArgValHisPheGlnAlaGlyArgPheHisLeuAspGly
421	AGCCGCGAGACCTTCGACTGCCTTTTCGAGCTGCTGGAGCACTACGTGGCGGCGCCGCGC
141	SerArgGluThrPheAspCysLeuPheGluLeuGluHisTyrValAlaAlaProArg
491	CGCATGTTGGGGCCCCCGCTGCGGCCAGCGCCGCGTGCGGCGCGCTGCAGGAGCTGTGCGC
161	ArgMetLeuGlyAlaProLeuArgGlnArgValArgProLeuGlnGluLeuCysArg
541	CAGCGCATCGTGGCCCGCGTGGGTCGCGAGAACCTGG GCGCATCCCTCTTAACCCGGTA
191	GlnArgIleValAlaAlaValGlyArgGluAsnLeuAlaArgIleProLeuAsnProVal
601	CTCCGTGACTACCTGAGTTCCTTCCCCCTTCCAGATCtgaccggctgccgctgtgccgcag
201	LeuArgAspTyrLeuSerSerPheProPheGluIle*

B - - - - - B

Figure 3B(2)

B - - - - - B

661
721
781
841
901
961
1021

cattaagtggggcgcccttatttcttattatttaattattattatttttctggaacca
cgtggagccctccccgcctgggtcgaggagtggtgtgagggtgagatgcctccca
cttctggctggagacctcatccacctctcaggggtgggggtgctccccctcctggtgctc
cctccgggtccccctggttgtagcagcttgtgtctggggccaggacctgaattccactc
ctacctctccatgtttacatatctccagtatctttgcacaaaccagggtcggggaggggt
ctctggcttcatttttctgtgtgcagaataatcctattttatatattttacagccagttta
ggtaataaaactttattatgaaagttttttttaaaagaaaaaa

Figure 3B(3)

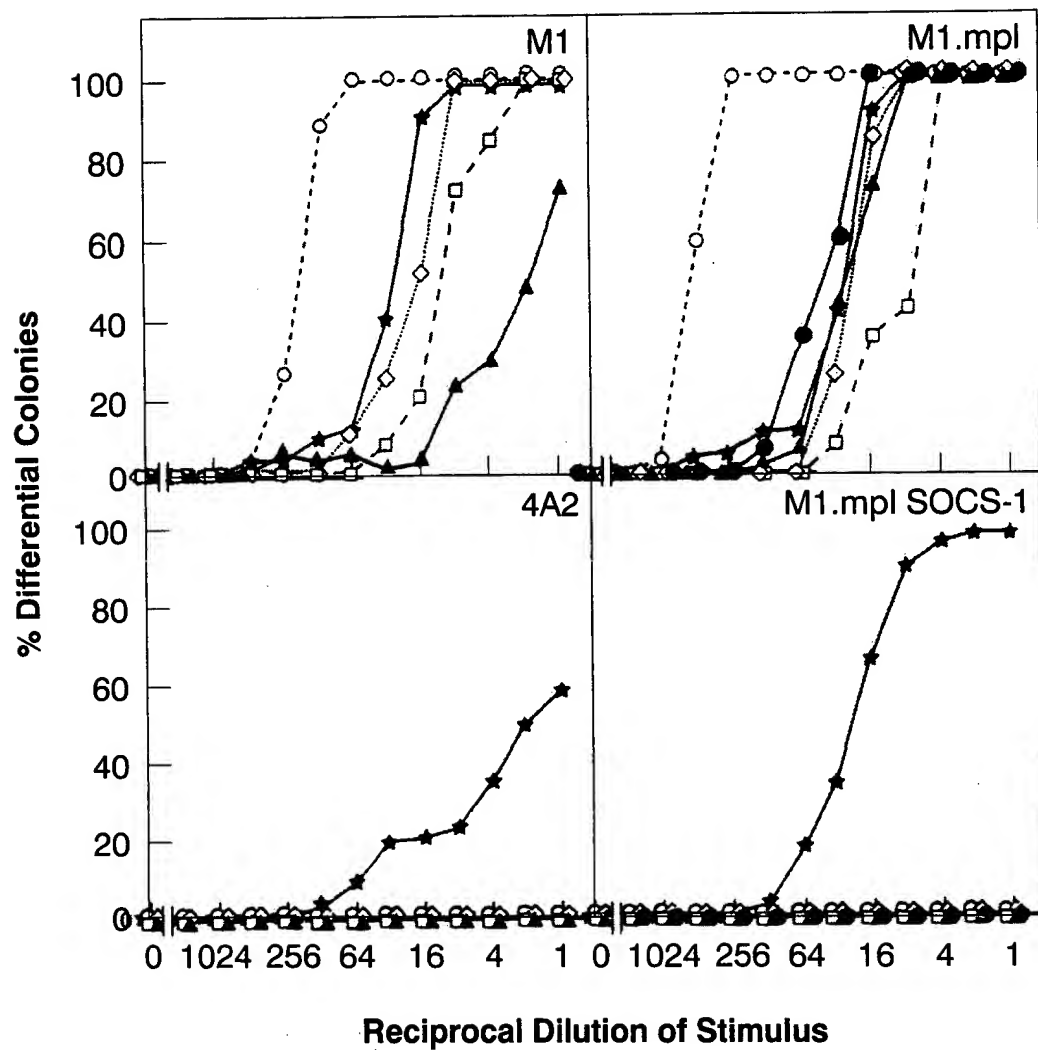


Figure 4

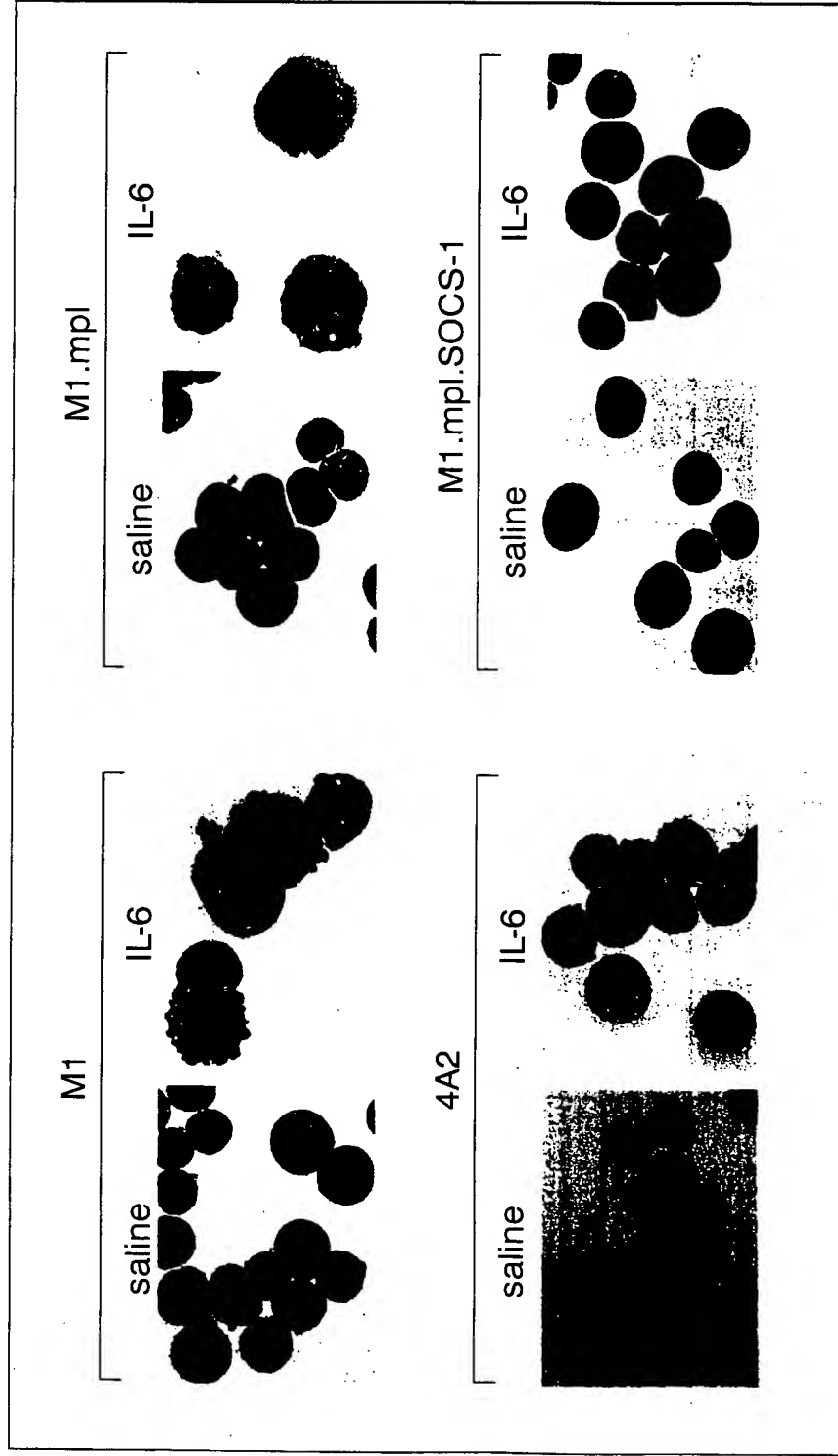


Figure 5

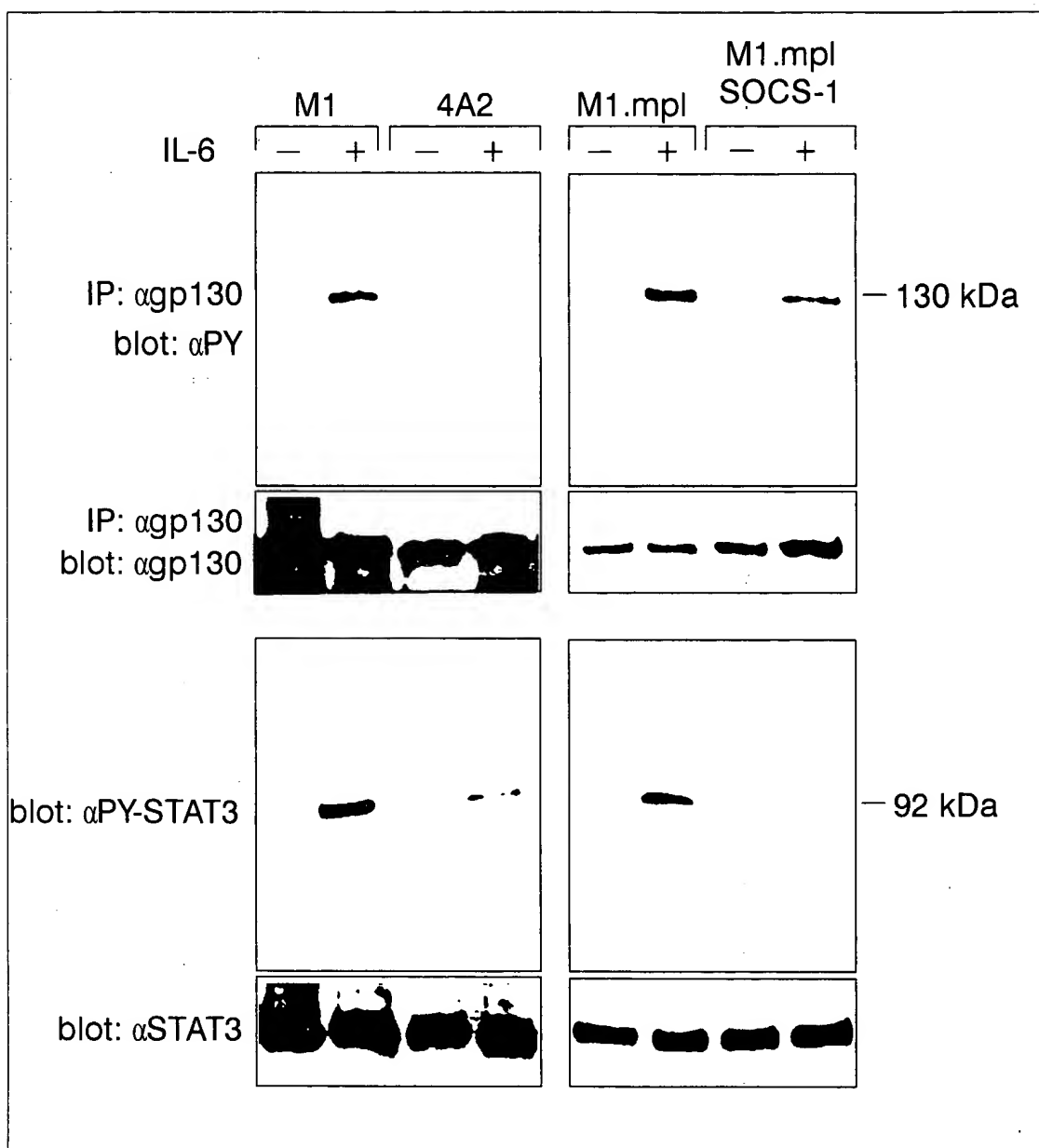


Figure 6

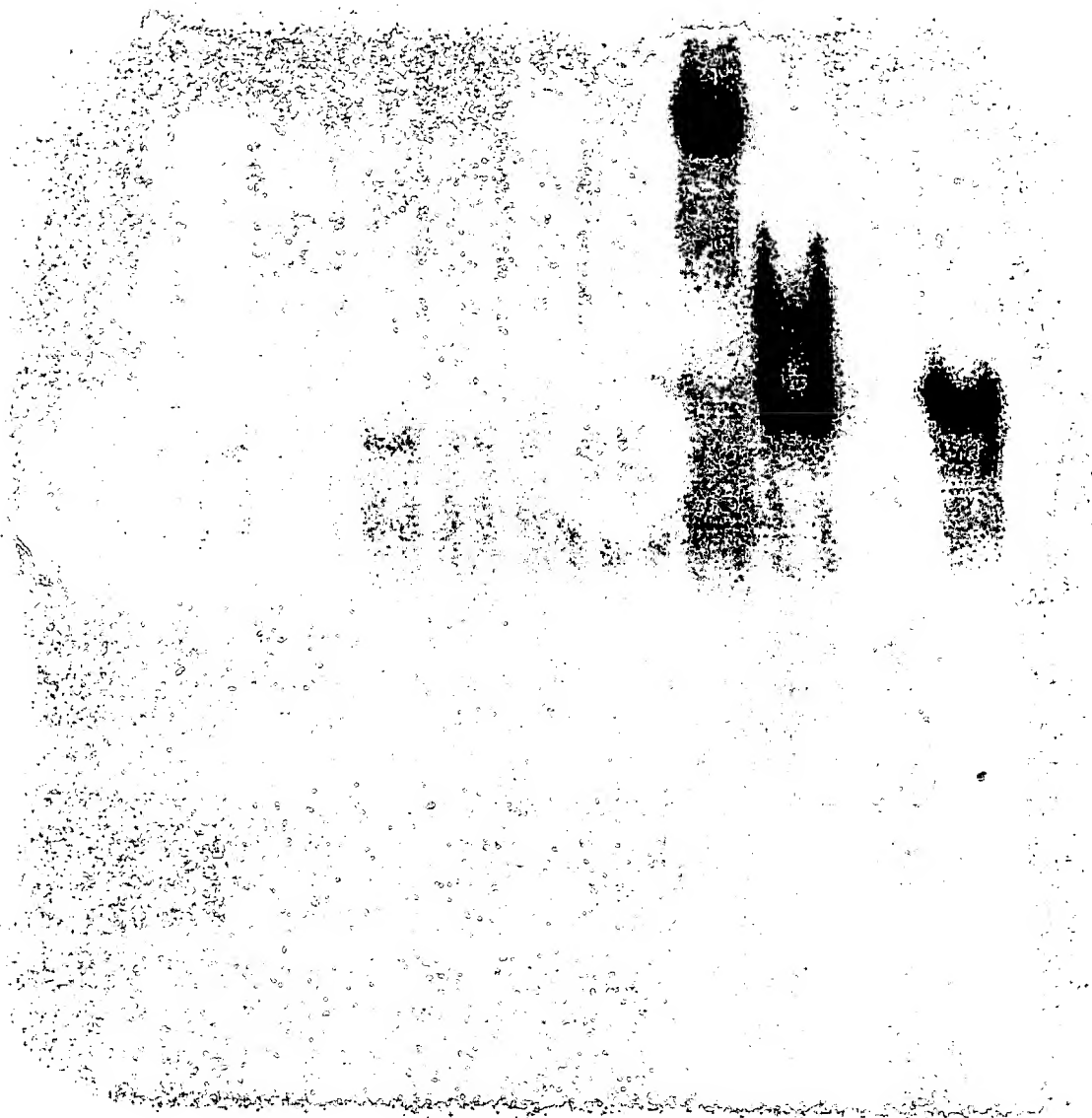


Figure 7A

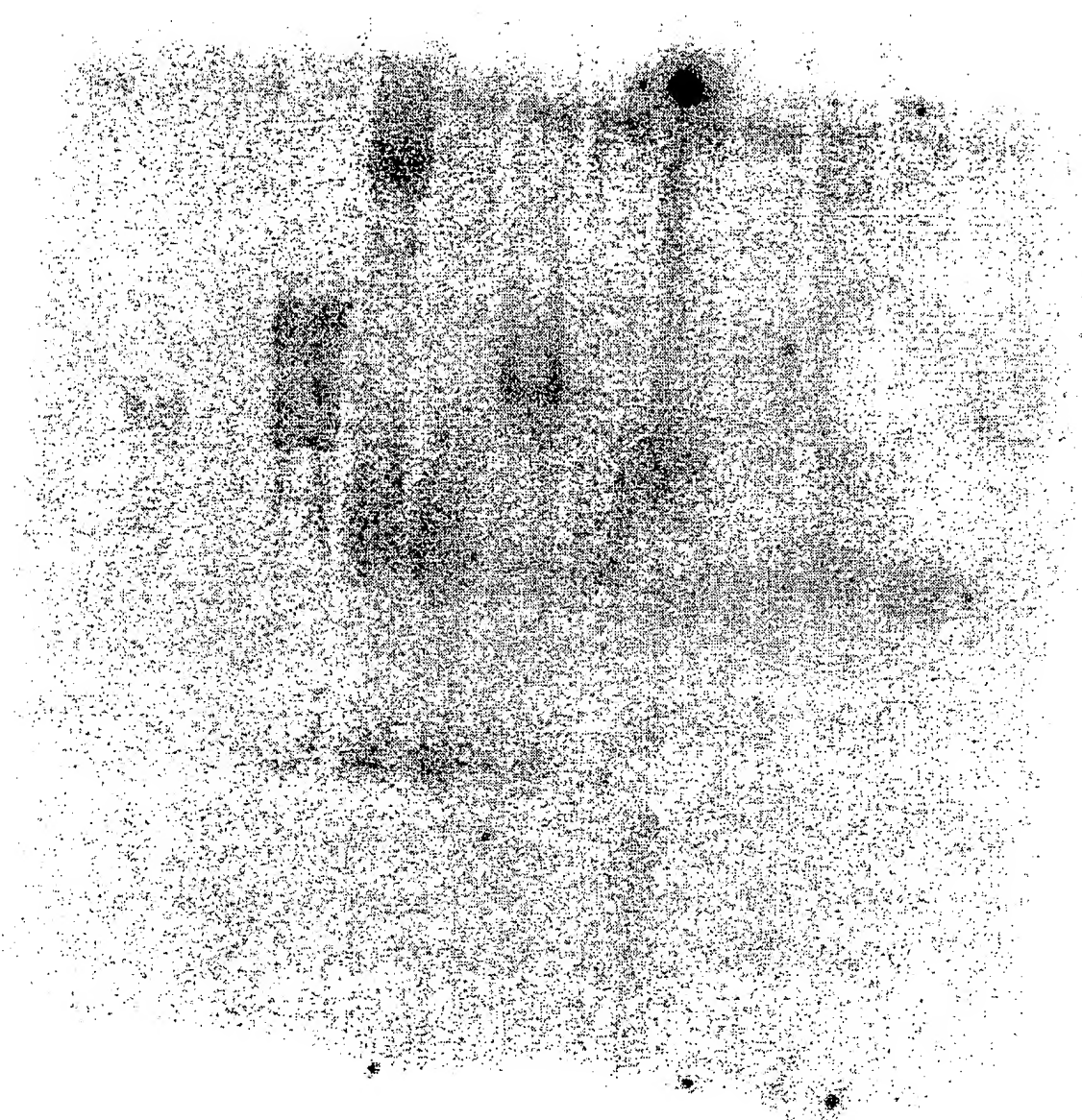


Figure 7B

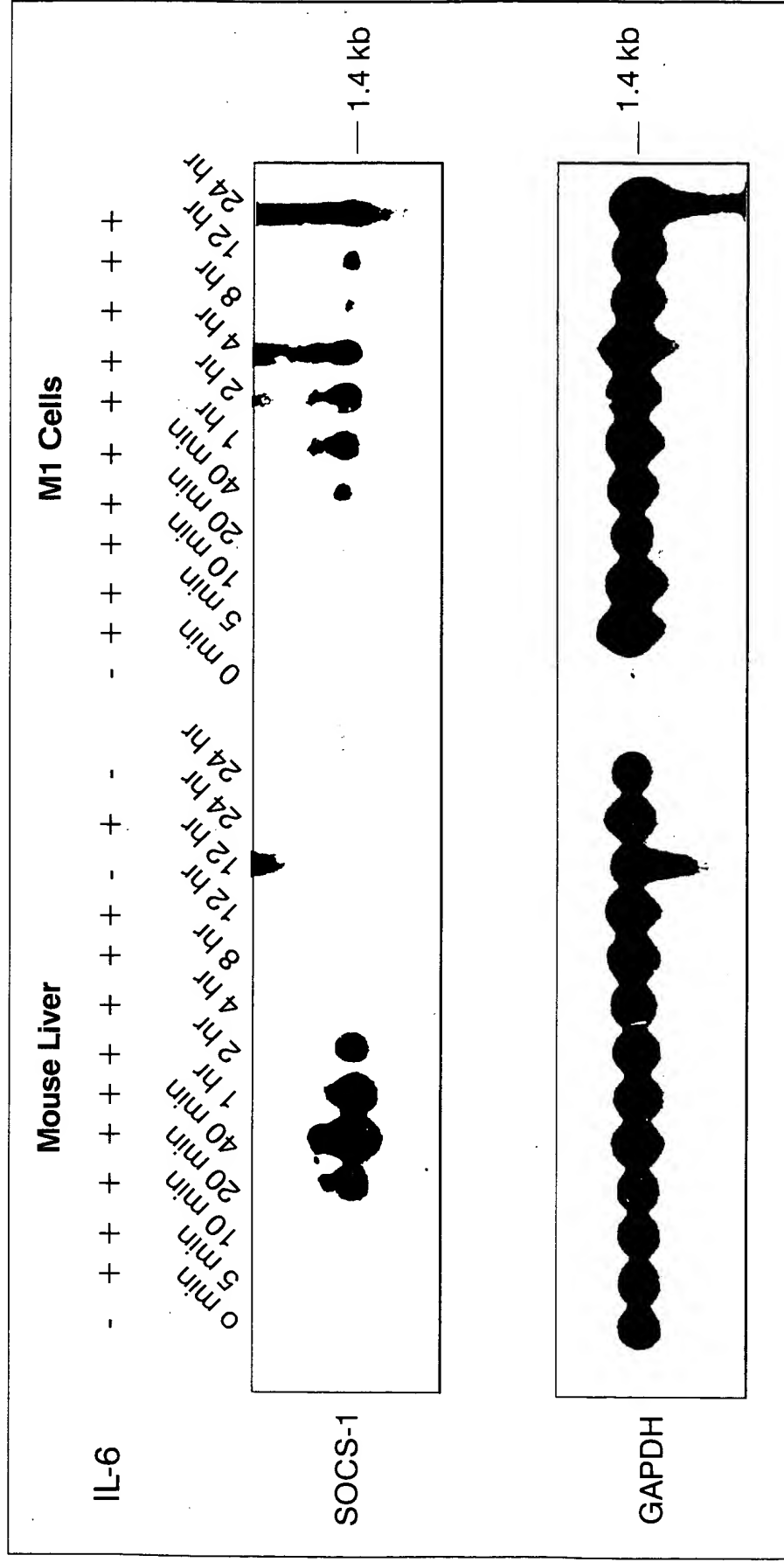


Figure 8

A - - - - - A

hs SOCS. 1	(98)	[VGTFELVRD	SRQRNC	FFALSVK	MASGPT	SIRVHF	QAGRF	HL D	...	GSRI	(141)
rr SOCS. 1	(99)	[VGTFELVRD	SRQRNC	FFALSVK	MASGPT	SIRVHF	QAGRF	HL D	...	GNRI	(142)
mm SOCS. 1	(99)	[VGTFELVRD	SRQRNC	FFALSVK	MASGPT	SIRVHF	QAGRF	HL D	...	GSRI	(142)
mm SOCS. 2	(67)	[EGTFELVRD	SSHS DY L	LTISVKT	SAGPTNL	RIEY	QDGK	FR L D	SI I	CVKSKL	(116)
mm SOCS. 3	(65)	[AGTFELVRD	SSDQRH	FFLSVKT	QSGTKNL	RIEY	QCEGG	SFSL	QSDPR	STQPV	(117)
mm C I S	(101)	[EGTFELVRD	STHPSY	LFELSVKT	TRGPTNV	RIEY	ADSS	FR L D	SNCL	SRPRI	(150)

hs SOCS. 1	(142)	[ESFDGLFEL	LEHYV	AAAPRR	ML GAP	...	...	...	...	...	(165)
rr SOCS. 1	(143)	[ETFDGLFEL	LEHYV	AAAPRR	ML GAP	...	...	...	...	...	(166)
mm SOCS. 1	(143)	[ETFDGLFEL	LEHYV	AAAPRR	ML GAP	...	...	...	...	...	(166)
mm SOCS. 2	(117)	[KOFDSVV	HLI D	YVVMCK	KRTGP	...	...	...	...	...	(140)
mm SOCS. 3	(115)	[PRFDGV L	KL VHH	KMPPGT	PSFSL	PPT	EPSSE	VPEQ	PPAQA	LPGSTPKRA	(164)
mm C I S	(151)	[LAFPDVV	SLVQH	YVASC	CAADTR	SD\$	PDPA	PTPAL	PMSK	QDAPSDSVLP	P (200)

B - - - - - B

Figure 9(II)

B-----B

hs SOCS. 1 (166)
 rr SOCS. 1 (167)
 mm SOCS. 1 (167)
 mm SOCS. 2 (141)
 mm SOCS. 3 (165)
 mmCIS (201)

..... L R Q R R V R P L Q E L C R Q R I V A T V G R. E N L A R I P L N P (198)
 L R Q R R V R P L Q E L C R Q R I V A A V G R. E N L A R I P L N P (199)
 L R Q R R V R P L Q E L C R Q R I V A A V G R. E N L A R I P L N P (199)
 .. E A P R N G T V H L Y L T K P L Y T S A P T L Q H F C R L A I N K C T G T. . . I W G L P L P T (185)
 Y Y I Y S G G E K I P L V L S R P L S S N V A T L Q H L C R K T V N G H L D S Y E K V T Q L P G P. (213)
 ... V A T A V H L K L V Q P F V R R S S A R S L Q H L C R L V I N R L V A D. . . V D C L P L P R (244)

hs SOCS. 1 (199)
 rr SOCS. 1 (200)
 mm SOCS. 1 (200)
 mm SOCS. 2 (186)
 mm SOCS. 3 (214)
 mmCIS (245)

V L R D Y L S S F P F O I (211)
 V L R D Y L S S F P F O I (212)
 V L R D Y L S S F P F O I (212)
 R L K D Y L E E Y K F O V (198)
 R R E F L D D Y D A P L (225)
 R M A D Y L R Q Y D F O I (257)

Figure 9(III)

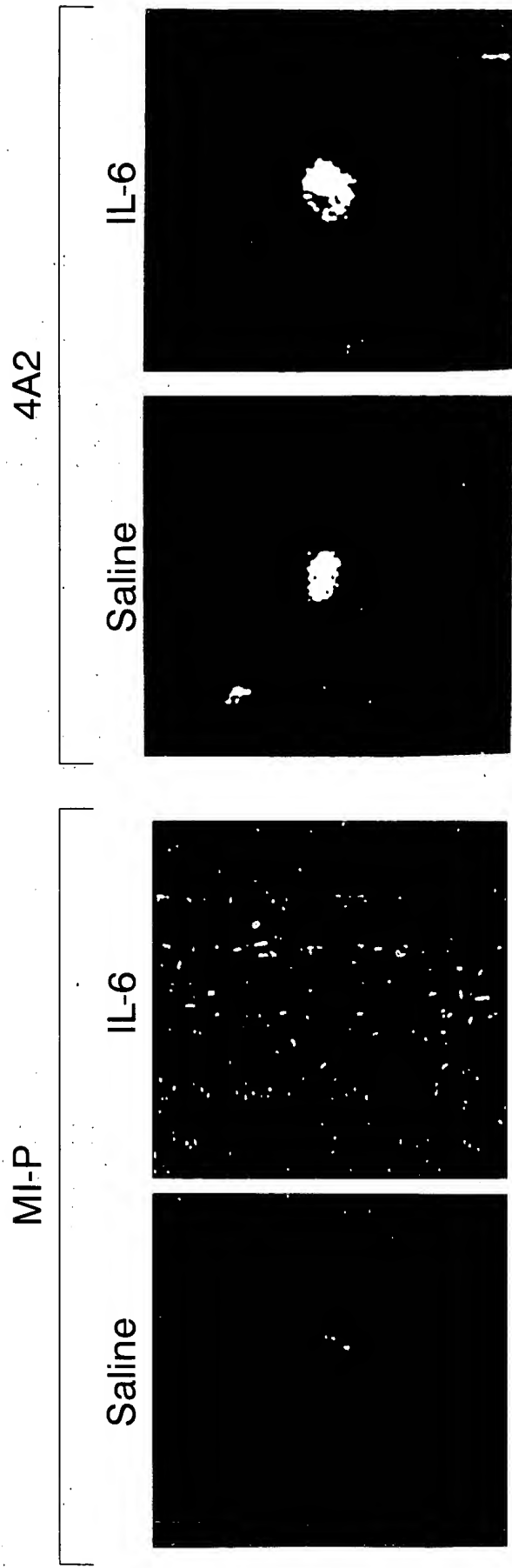


Figure 10

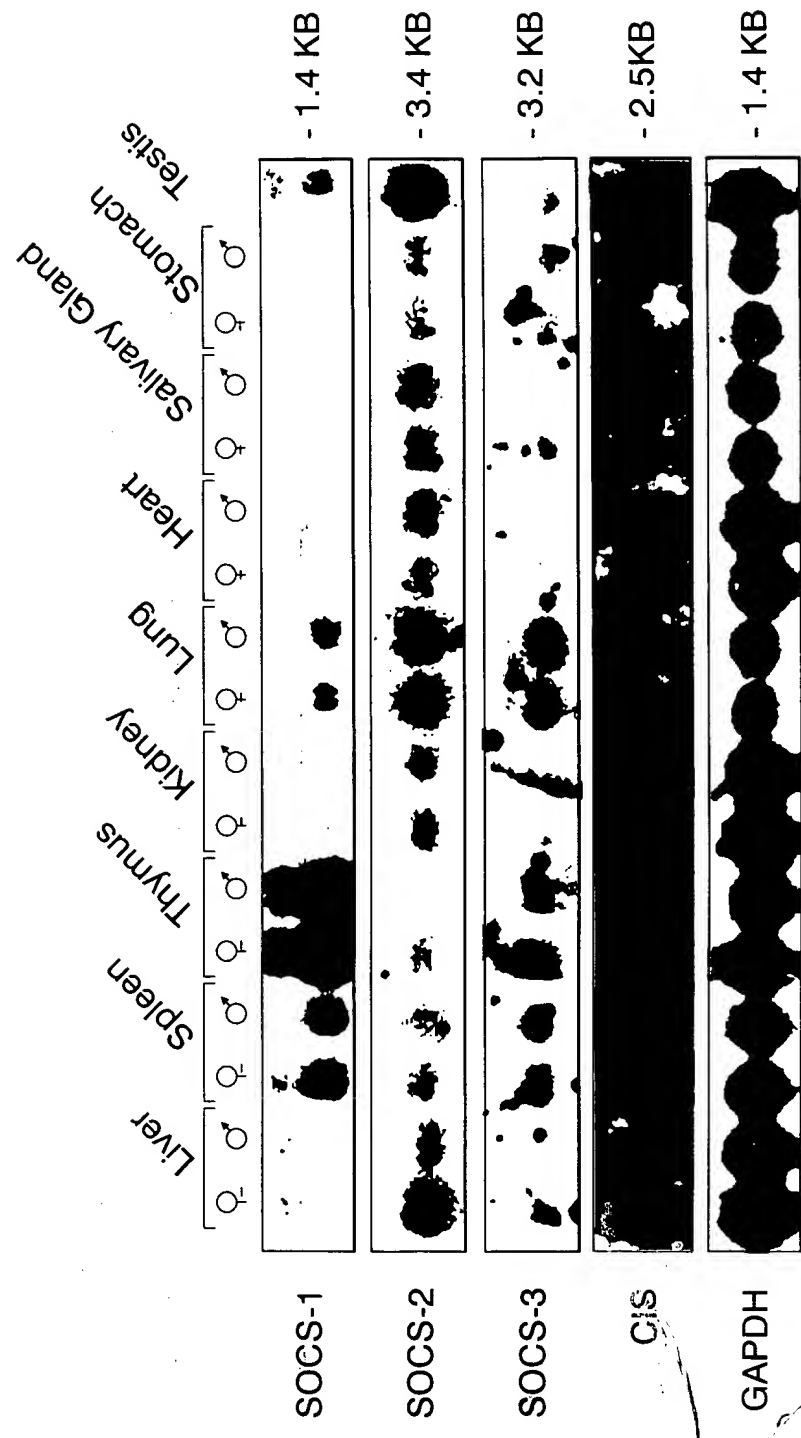
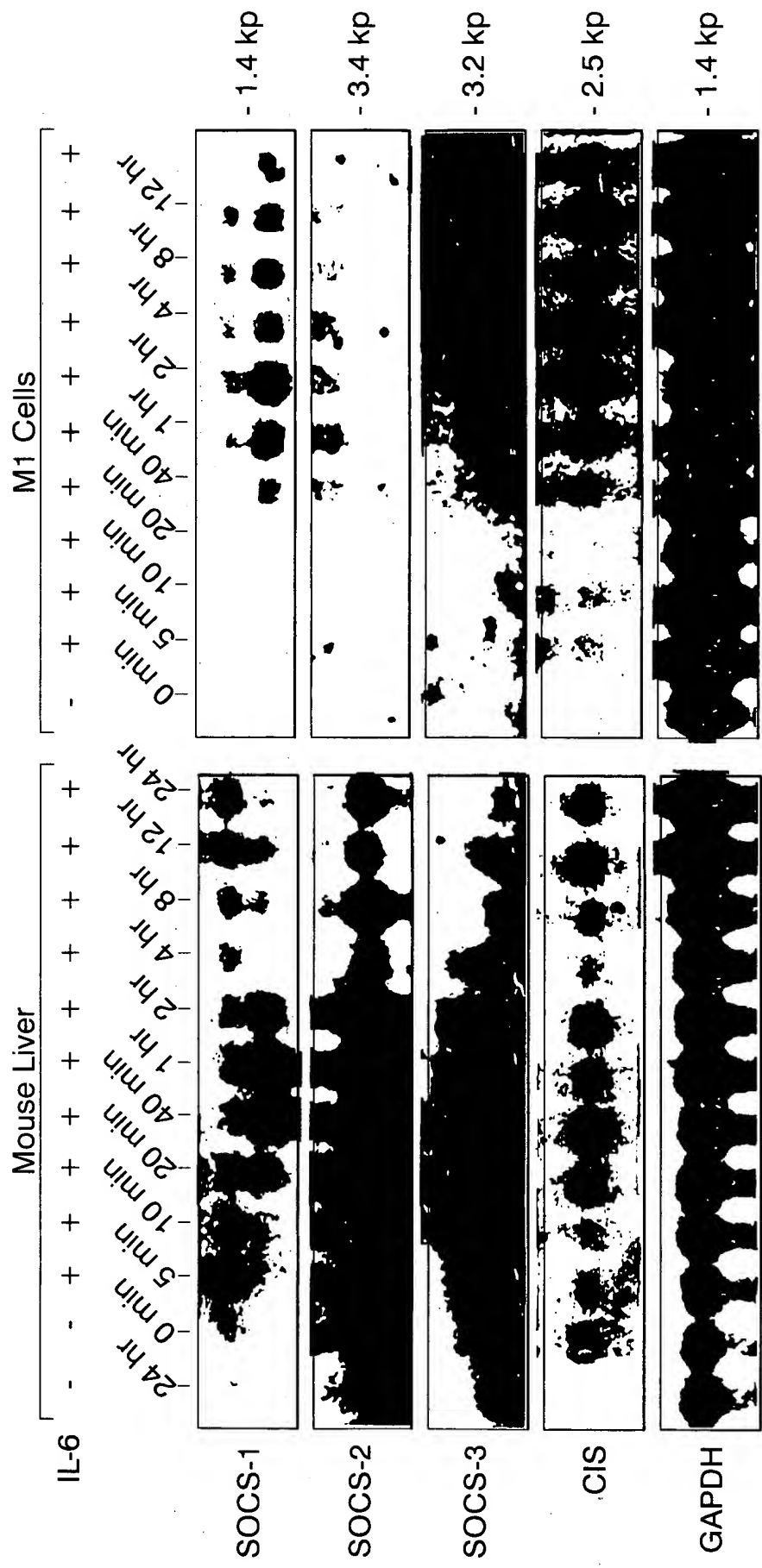


Figure 11A



Bone Marrow
Figure 11B



Figure 11C

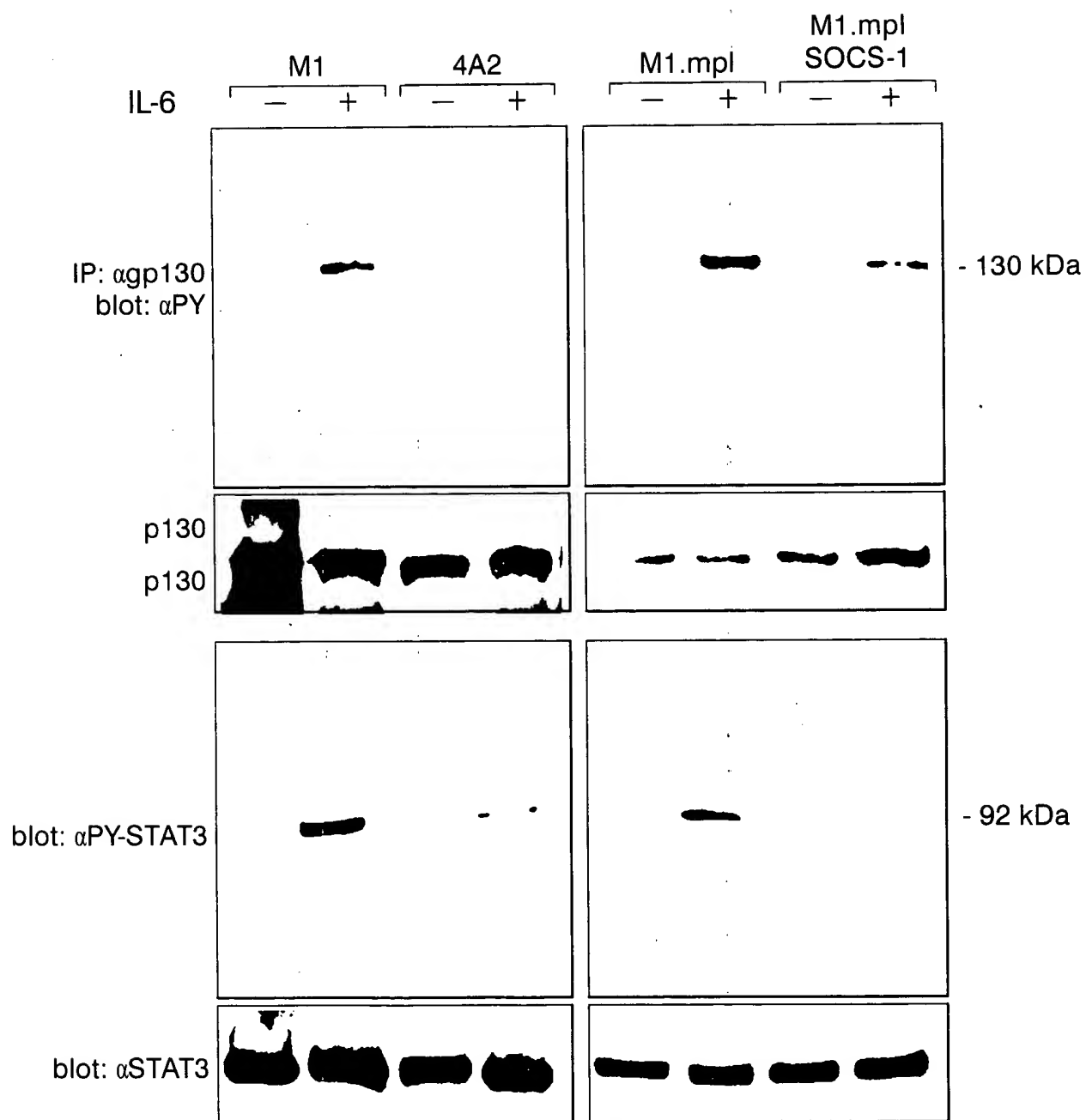


Figure 12A

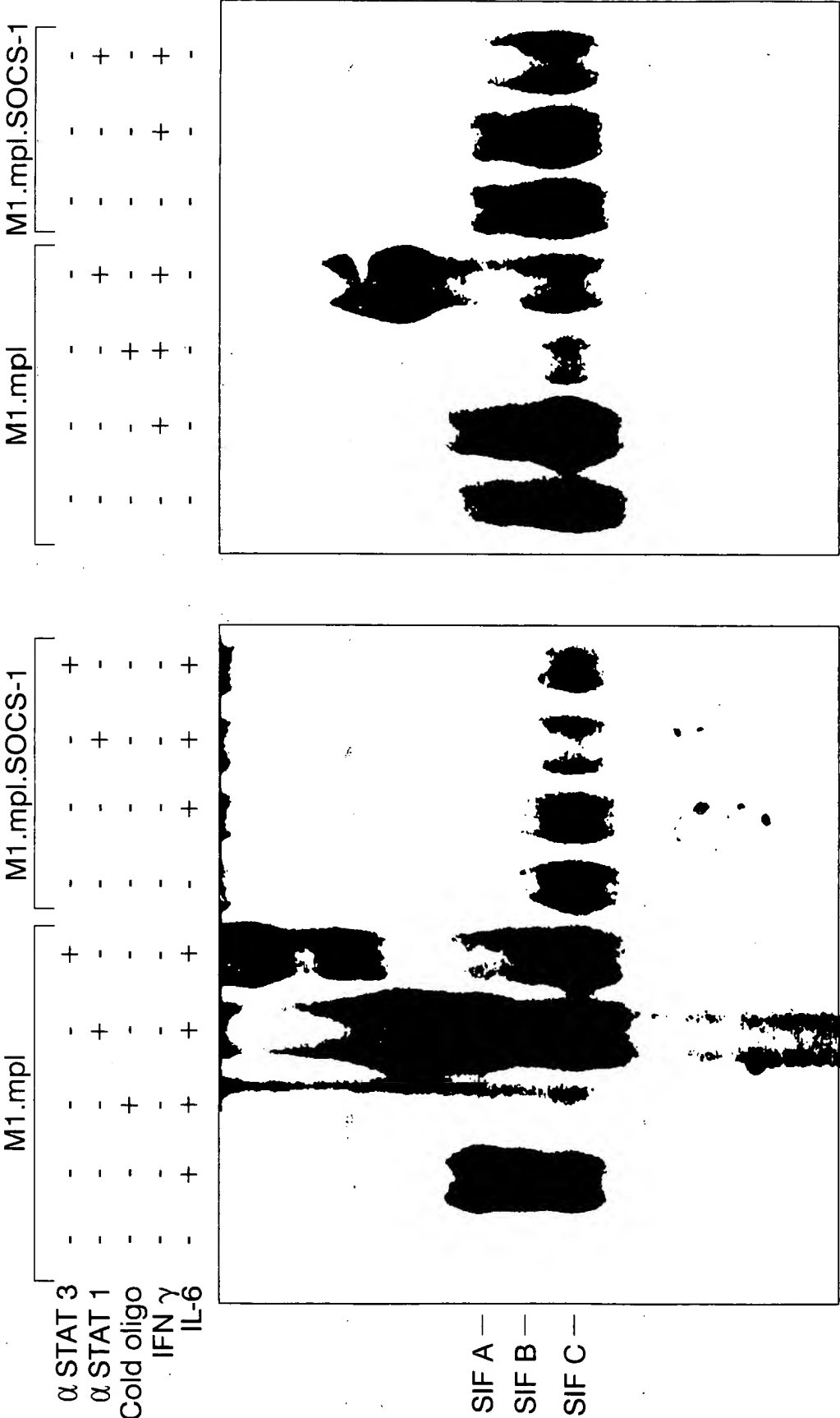


Figure 12B

Appln. No. 08/962,560
 Notice of Allowance Dated 8/10/04
 Replacement Sheet

mS	S	O	C	S	1	MA	TH	HN	QV	AA	DN	AI	SS	PA	AE	PR	RR	SE	PS	SS	SS	SS	SS	SS	PA	AP	VR	RP	
mS	S	O	C	S	3	SH2	MA	TH	HN	QV	AA	DN	AI	SS	PA	AE	PR	RR	SE	PS	SS	SS	SS	SS	SS	PA	AP	VR	RP
mS	S	O	C	S	2	SH2	MA	TH	HN	QV	AA	DN	AI	SS	PA	AE	PR	RR	SE	PS	SS	SS	SS	SS	SS	PA	AP	VR	RP
mC	I	S				SH2	MA	TH	HN	QV	AA	DN	AI	SS	PA	AE	PR	RR	SE	PS	SS	SS	SS	SS	SS	PA	AP	VR	RP
mS	S	O	C	S	5	SH2	MA	TH	HN	QV	AA	DN	AI	SS	PA	AE	PR	RR	SE	PS	SS	SS	SS	SS	SS	PA	AP	VR	RP
mS	S	O	C	S	14	SH2	MA	TH	HN	QV	AA	DN	AI	SS	PA	AE	PR	RR	SE	PS	SS	SS	SS	SS	SS	PA	AP	VR	RP
mS	S	O	C	S	4	WD	MA	TH	HN	QV	AA	DN	AI	SS	PA	AE	PR	RR	SE	PS	SS	SS	SS	SS	SS	PA	AP	VR	RP
mS	S	O	C	S	6	WD	MA	TH	HN	QV	AA	DN	AI	SS	PA	AE	PR	RR	SE	PS	SS	SS	SS	SS	SS	PA	AP	VR	RP
mS	S	O	C	S	15	WD	MA	TH	HN	QV	AA	DN	AI	SS	PA	AE	PR	RR	SE	PS	SS	SS	SS	SS	SS	PA	AP	VR	RP
mS	S	O	C	S	5	SH2	MA	TH	HN	QV	AA	DN	AI	SS	PA	AE	PR	RR	SE	PS	SS	SS	SS	SS	SS	PA	AP	VR	RP
mS	S	O	C	S	14	SH2	MA	TH	HN	QV	AA	DN	AI	SS	PA	AE	PR	RR	SE	PS	SS	SS	SS	SS	SS	PA	AP	VR	RP
mS	S	O	C	S	5	SH2	MA	TH	HN	QV	AA	DN	AI	SS	PA	AE	PR	RR	SE	PS	SS	SS	SS	SS	SS	PA	AP	VR	RP
mS	S	O	C	S	14	SH2	MA	TH	HN	QV	AA	DN	AI	SS	PA	AE	PR	RR	SE	PS	SS	SS	SS	SS	SS	PA	AP	VR	RP
mS	S	O	C	S	5	SH2	MA	TH	HN	QV	AA	DN	AI	SS	PA	AE	PR	RR	SE	PS	SS	SS	SS	SS	SS	PA	AP	VR	RP
mS	S	O	C	S	14	SH2	MA	TH	HN	QV	AA	DN	AI	SS	PA	AE	PR	RR	SE	PS	SS	SS	SS	SS	SS	PA	AP	VR	RP
mS	S	O	C	S	5	SH2	MA	TH	HN	QV	AA	DN	AI	SS	PA	AE	PR	RR	SE	PS	SS	SS	SS	SS	SS	PA	AP	VR	RP
mS	S	O	C	S	14	SH2	MA	TH	HN	QV	AA	DN	AI	SS	PA	AE	PR	RR	SE	PS	SS	SS	SS	SS	SS	PA	AP	VR	RP

FIG. 13 A (i)

Appln. No. 08/962,560
 Notice of Allowance Dated 8/10/04
 Replacement Sheet

mS0CS. 1	SH2	RPCPAVPAPA
mS0CS. 3	SH2	.....
mS0CS. 2	SH2	.....
mCIS	SH2	.....
mS0CS. 5	SH2	KEKSI SLGEAAPQDESSPLRENV ALQLGLSPSKTF SRRRNQNCA
mS0CS. 14	SH2	GSGRASLPRLSERRVMAV VMAAGARTAPLELSSERSVQKVPRR
mS0CS. 4	WD	
mS0CS. 6	WD	
mS0CS. 15	WD	
mS0CS. 5	SH2	KHSCSTKTQSSLDTEKKFGTTRSGLQRRRRRYGVSSMDDMDS
mS0CS. 14	SH2	SRSA DRKDG YVWSGKKLSWSYKSESCSESAIGTVEIPLR
mS0CS. 5	SH2	KHLSELMLEKCPFPAGSDLLQKWHHIIHQHTAPVVS
mS0CS. 14	SH2	PKNCSGRHSPGLPSKRKIHTSELMTDPCPFPPRRCDLAFRWFF
mS0CS. 5	SH2	HTFEATADVNPIYKGPKLPPG MTEISGDGSAIPQXNCB
mS0CS. 14	SH2	CFSHTNGQPPCVTTANSA SCTGGH TGSMMNVLVTNNSTEDSDMD
mS0CS. 5	SH2	DYVHCLVPPDLLDITGHP
mS0CS. 14	SH2	DYVHCLVPPDLLDITGHP

FIG. 13 A (ii)

CONSENSUS	
mmS O C S - 4	4
mmS O C S - 6	6
mmS O C S - 4	4
mmS O C S - 6	6
mmS O C S - 4	4
mmS O C S - 6	6
mmS O C S - 4	4
mmS O C S - 6	6
mmS O C S - 4	4
mmS O C S - 6	6
mmS O C S - 4	4
mmS O C S - 6	6
mmS O C S - 4	4
mmS O C S - 6	6
mmS O C S - 15	15
mmS O C S - 15	15
mmS O C S - 13	13
mmS O C S - 15	15
mmS O C S - 13	13
mmS O C S - 15	15

COMSEN	K	
SUS	Y	
	CFR	
mmS	φ	WD
mmS	AW	SGYRI VKL
mmS	AW	SGHCVKL
mmS	EH	VI
mmS		DCGDI VWSLAF
mmS		DCGQI VWGVAF
mmS	KI	WDVYTGKLL LLLNLVD
mmS	KI	WEVQTGL LLLNLS
mmS	VW	DLKDDGNMVKVLR
mmS	IW	DLNKHGKQIQVLS
mmS	LW	MDKYTIMIRKLE
mmS	LW	SMRSYTLIRKLE
mmS	VW	DPHNGLLLMEFGHLFPSPPTPIFAG
mmS	MW	DPTYTGARLRSLSLHHTQL EPTMDSD
mmS	FY	RI
mmS	IW	RA
		LELKAPVAFAP
mmS	FW	A
mmS	FW	WT
mmS	GW	N
mmS	AW	E
mmS	GW	ISWPLGRNRL
mmS	GW	I GRGKL
mmS	MX	D
mmS	GY	S

FIG. 13C (ii)

Appln. No. 08/962,560
of Allowance Dated 8/
Replacement Sheet

[illegible]

١٣٥٠

[illegible]

三三三三三

Appln. No. 08/962,560
 Notice of Allowance Dated 8/10/04
 Replacement Sheet

mS0CS-1	SH2	V A A P R R R	M L G A P L R Y T S	Q R R
mS0CS-3	SH2	Y S G G E K I P I	V L S R P L R Y T S	S S N
mS0CS-2	SH2	A P R N G T V H I	T L T K P L R T F	
mC I S	SH2	V A T A V H L K I	T L T K P L R T F	
mS0CS-5	SH2	S S C M F F E P I	T L T K P L R T F	
mS0CS-14	SH2	S S C M F F E P I	T L T K P L R T F	
hS0CS-9	SH2	S A C M F F E P I	T L T K P L R T F	
hS0CS-11	SH2	G S A T Y L V R I	T L T K P L R T F	
mS0CS-4	WD	G L P P T P V Q I	T L T K P L R T F	
mS0CS-6	WD		T L T K P L R T F	
mS0CS-13	WD	W G H C E I R M R Y L	T L T K P L R T F	
mS0CS-15	WD	W G Q C Q V R I R Y M G E R	T L T K P L R T F	
mS0CS-7	A N K		T L T K P L R T F	

FIG. 13 E (ii)

Appln. No. 08/962,560
 Notice of Allowance Dated 8/10/04
 Replacement Sheet

CONSENSUS		P		T		H		T		F																		
		P		T		H		T		F																		
mS0CS-1	SH2	φ	V	R	P	L	Q	E	L	φ	L	A	R	I	P	L	Q	E	L	φ	V	R	P	L	Q	E	L	φ
mS0CS-3	SH2	φ	V	A	T	L	Q	H	L	φ	V	A	A	V	G	H	L	D	S	Y	E	K	-	-	-	-	-	-
mS0CS-2	SH2	φ	A	P	T	L	Q	H	F	φ	V	N	G	H	L	D	S	Y	E	K	-	-	-	-	-	-	-	-
mCIS	SH2	φ	A	R	S	L	Q	H	L	φ	V	I	N	R	L	V	A	D	-	-	-	-	-	-	-	-	-	-
mS0CS-5	SH2	φ	P	F	S	L	Q	H	L	φ	V	I	C	R	C	T	T	Y	D	G	-	-	-	-	-	-	-	-
mS0CS-14	SH2	φ	P	F	S	L	Q	H	L	φ	V	I	C	N	C	T	T	Y	D	G	-	-	-	-	-	-	-	-
hS0CS-9	SH2	φ	V	R	S	L	Q	H	L	φ	V	I	C	Q	Y	T	R	I	D	L	-	-	-	-	-	-	-	-
hS0CS-11	SH2	φ	V	K	S	L	Q	H	L	φ	V	I	R	Q	Y	T	R	I	D	H	-	-	-	-	-	-	-	-
mS0CS-4	WD	φ	V	P	S	L	Q	H	L	φ	V	I	R	R	V	M	S	T	Q	E	-	-	-	-	-	-	-	-
mS0CS-6	WD	φ	L	S	S	L	K	H	L	φ	V	I	R	S	F	L	T	T	Y	Q	-	-	-	-	-	-	-	-
mS0CS-13	WD	φ	P	L	P	L	M	D	L	φ	V	I	R	L	A	L	G	K	E	R	L	G	A	-	-	-	-	-
mS0CS-15	WD	φ	P	Q	S	L	L	H	L	φ	V	I	R	H	A	L	G	D	T	R	L	G	Q	-	-	-	-	-
mS0CS-7	ANK	φ	P	R	T	L	L	S	L	φ	V	I	R	R	A	L	G	K	Y	R	L	H	L	-	-	-	-	-
mS0CS-10	ANK	φ	P	R	P	L	A	H	L	φ	V	I	R	V	R	K	A	I	G	K	Y	R	I	K	L	-	-	-
mS0CS-12	ANK	φ	V	P	S	L	T	H	L	φ	V	I	R	A	S	L	K	A	E	H	L	H	S	D	I	F	-	-
mS0CS-8	?	φ	P	R	S	L	Q	H	L	φ	V	I	R	S	H	L	E	G	C	L	P	H	A	-	-	-	-	-

FIG. 13 F (i)

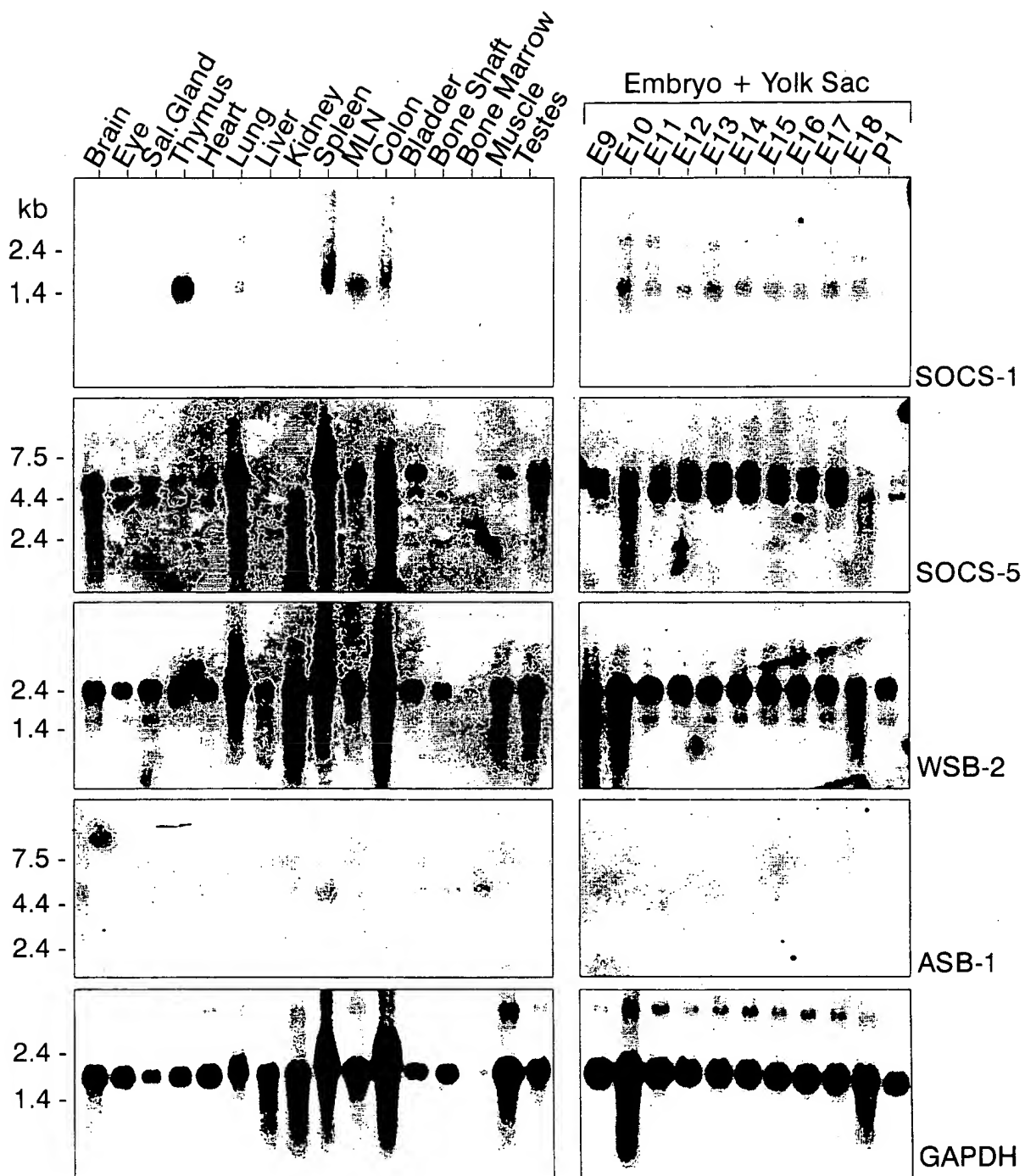


Figure 14B

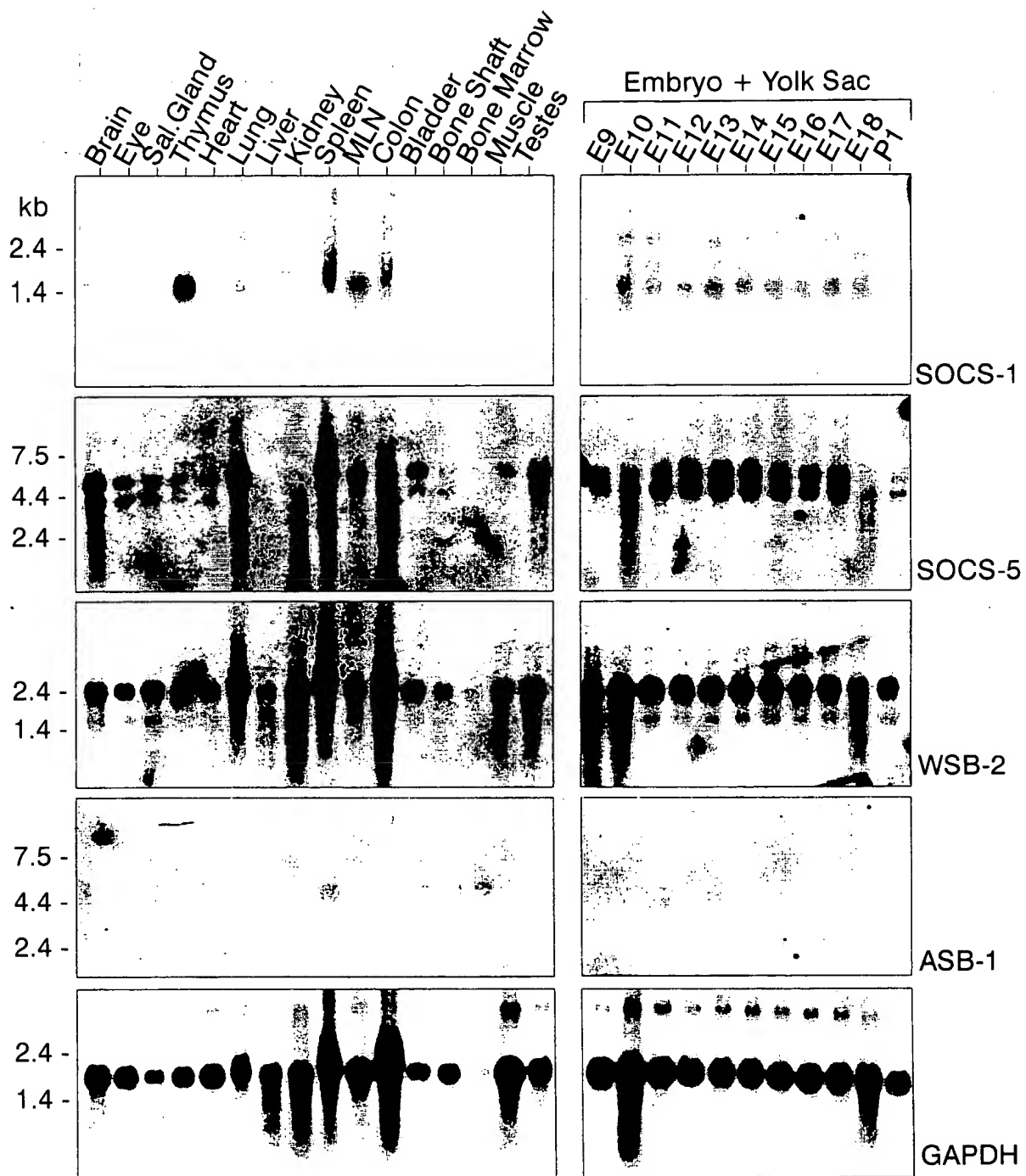


Figure 14B

MASFPRVNEKEIVRSRTIGELLAPAAPFDKCKCGGENWTVAFAPDGSYFAWSQGYRIVKLVPSQCRKNFLLHGSKNVTN
SSCLKLARQNSNGGQKNKPEHVIDCGDIVWSLAFGSSVPEKQSRCVNI EWHRRFRFGQDQLLATGLNNGRIKIWDVYTG
KLLNLVDHIEMVRDLTFAPDGSLLLVSA SRDKTLRVWDLKDDGNMVKVLRHQNWVYSCAFSPDCSMLCSVGASKAVFL
WNMDKYTMIRKLEGGHHHDVVACDFSPDGALLATASYDTRVYVWDPHNGDLLMEFGHLFPSTPIFAGGANDRWVRAVSFS
HDGLHVASLADDKMVRFWRIDEDCPVQVAPLSNGLCCAFSTDGSVLAAGTHDGSYFWATPRQVPSLQHICRMSIRRVMS
TQEVQKLPVPSKILAFLSYRG*

Figure 16

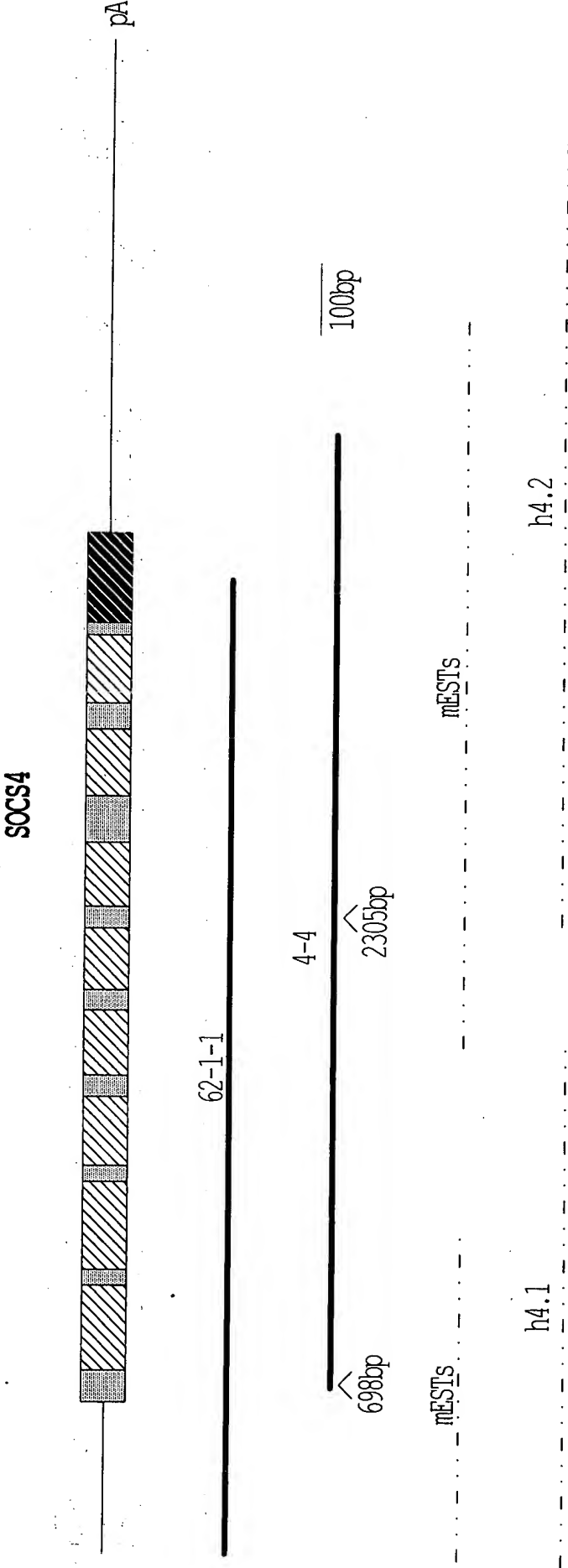


Figure 17

h4.1

CTGTCTTCTCCGCGAGCGGAGGCTGGGTACAGGGTCTATTGTCTGTGGTTGACTCCGTA
CTTTGGTCTGAGGCCTTCGGGAGCTTTCCCGAGGCAGTTAGCAGAAGCCGCGAGCGACCGC
CCCCGCCCCGTCTCCTCTGTCCCTGGGCCCCGGGAGACAAACTTGGCGTCACGCCCTCAGCG
GTCGCCACTCTCTTCTCTGTGTTGGGTCCGCATCGTATTCCCGGAATCAGACGGTGCCC
CATAGATGGCCAGCTTTCCCCCGAGGGTCAACGAGAAAGAGATCGTGAGATCACGTACTA
TAGGTGAACTTTTAGCTCCTGCAGCTCCTTTTGACAAGAAATGTGGTCGTGAAAATTGGA
CTGTTGCTTTTGCTCCAGATGGTTCATACTTTGCTTGGTCACAAGGACATCGCACAGTAA
AGCTTGTTCCGTGGTCCCAGTGCCTTCAGAACTTTCTCTTGCATGGCACCAAGAATGTTA
CCAATTCAAGCAGTTTAAGATTGCCAAGACAAAATAGTGATGGTGGTCAGAAAAATAAGC
CTCGTGACATATTATAGACTGTGGAGATATAGTCTGGAGTCTTGCTTTTGGGTCATCAGT
TCCAGAAAAACAGAGTCGCTGTGTAAATATAGAATGGCATCGCTTCAGATTTGGACAAGA
TCAGCTACTTCTTGCTACAGGGTTGAACAATGGGCGTATCAAAATATGGGATGTATATCA
GGAAACTCCTCCTTAAGTTGGTAGATCATACTGAAGTGGTCAGAGATTTAACTTTTGCTC
CAG

h4.2

CTCTGTATGTCTGAATGAAGCTATAACATTTGCCTTTTTTATTGCAGGTTTCCTTTGGAA
TATGGATAAATACACCATGATACGGAACTAGAAGGACATCACCATGATGTGGTAGCTTG
TGACTTTTCTCCTGATGGAGCATTACTGGCTACTGCATCTTATGATACTCGAGTATATAT
CTGGGATCCACATAATGGAGACATTCTGATGGAATTTGGGCACCTGTTTCCCCACCTAC
TCCAATATTTGCTGGAGGAGCAAATGACCGGTGGGTACGATCTGTATCTTTTAGCCATGA
TGGACTGCATGTTGCAAGCCTTGCTGATGATAAAATGGTGAGGTTCTGGAGAATTGATGA
GGATTATCCAGTGCAAGTTGCACCTTTGAGCAATGGTCTTTGCTGTGCCCTTCTCTACTGA
TGGCAGTGTTTTAGCTGCTGGGACACATGACGGAAGTGTGTATTTTTGGGCCACTCCACG
GCAGGTCCCTAGCCTGCAACATTTATGTCGCATGTCAATCCGAAGAGTGATGCCCCACCA
AGAAGTTCAGGAGCTGCCGATTCTTCCAAGCTTTTGGAGTTTCTCTCGTATCGTATTTA
GAAGATTCTGCCTTCCCTAGTAGTAGGGACTGACAGAATACACTTAACACAAACCTCAAG
CTTTACTGACTTCAATTATCTGTTTTTAAAGACGTAGAAGATTTATTTAATTTGATATGT
TCTTGTACTGCATTTTGTATCAGTTGAGCTTTTAAATATTATTTATAGACAATAGAAGTA
TTTCTGAACATATCAAATATAAATTTTTTTAAAGATCTAACTGTGAAAACATACATACCT
GTACATATTTAGATATAAGCTGCTATATGTTGAATGGACCCTTTTGCTTTTCTGATTTTT
AGTTCTGACATGTATATATTGCTTCAGTAGAGCCACAATATGTATCTTTGCTGTAAAGTG
CAAGGAAATTTTAAATTCTGGGACACTGAGTTAGATGGTAAATACTGACTTACGAAAGTT
GAATTGGGTGAGGCGGGCAAATCACCTGAGGTCAGCAGTTTGAGACTAGCCTGGCAAACA
TGATGAAACCCTGTCTCTACTAAAAATACAAAAA

Figure 18

SOC5

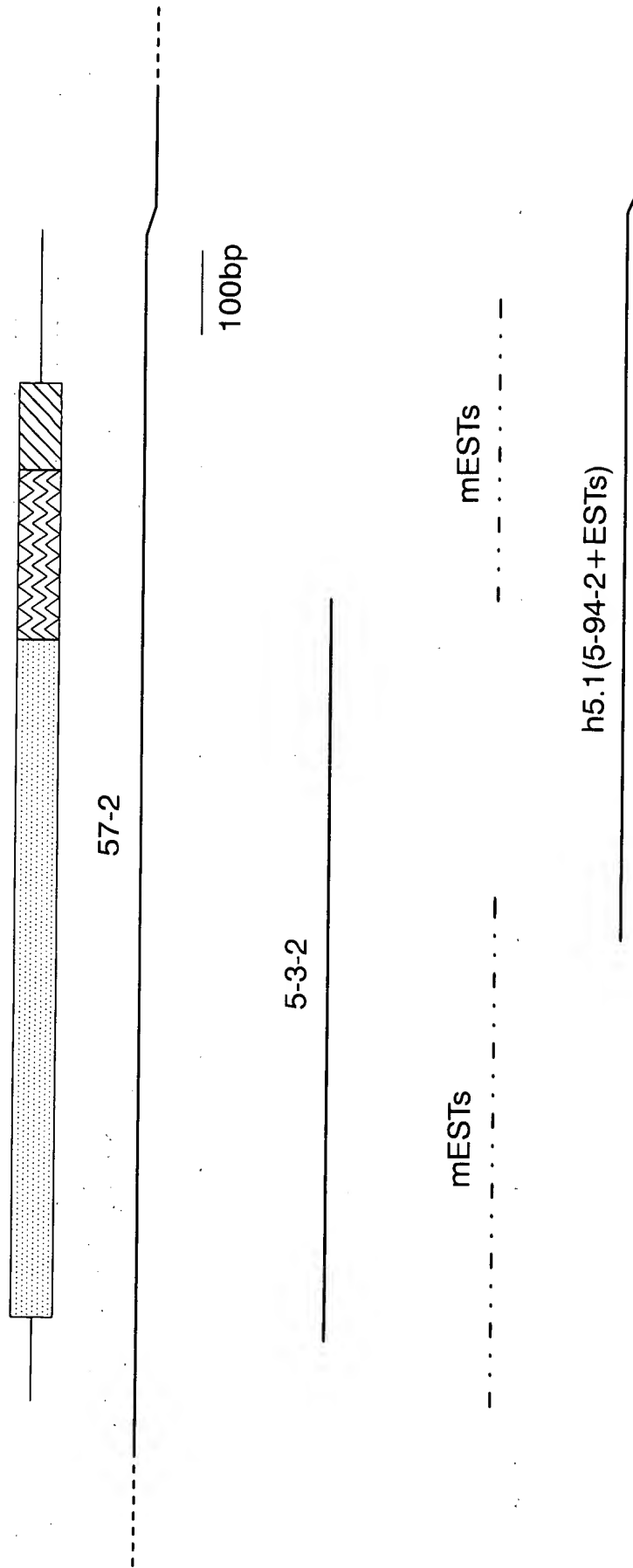


Figure 19

cggcacgagccgggctccgtccggaggaagcgaggctgcgccgcccggcccgagcggaggacgg
gamgcgcgggcggtcgcgctcgccctgtcgctgactgcgctgccccggcccatccttgccctggccgca
ggtgccctggatgagggccgcgcgctgtcccggccgctgagtgtcccccgcggtcgccccggcgccctg
ccctcaagcggccgcctctccttgccccgggtccccgttttccccggcgagtcctcctccggtgggc
gcctccgcacctcggcgcaggcggcacggccctcgggcccgggatggatccgcccgggaagaggaagaca
agccggggcggttgagccccctgcgcacgggtgccgcgcgctagtgggagcttactcgcagtaggctct
cgctcttctaatcaATGGATAAAGTGGGGAAAATGTGGAACAACCTTAAAATACAGATGCCAGAATCTC
TTCAGCCACGAGGGAGGAAGCCGTAATGAGAACGTGGAGATGAACCCCAACAGATGTCCGTCTGTCAA
AGAGAAAAGCATCAGTCTGGGAGAGGCAGCTCCCCAGCAAGAGAGCAGTCCCTTAAGAGAAAATGTT
GCCTTACAGCTGGGACTGAGCCCTTCCAAGACCTTTTCCAGGCGGAACCAAACTGTGCCGCAGAGAT
CCCTCAAGTGGTTGAAATCAGCATCGAGAAAGACAGTGACTCGGGTGCCACCCCAGGAACGAGGCTTG
CACGGAGAGACTCCTACTCGCGGCACGCCCCGTGGGGAGGAAAGAAGAAACATTCTGTTCACAAAG
ACCCAGAGTTTCATTGGATACCGAGAAAAAGTTTGGTAGAACTCGAAGCGGCCTTCAGAGGCGAGAGCG
GCGCTATGGAGTCAGTCCATGCAGGACATGGACAGCGTTTCTAGCCGCGCGGTGGGAGCCGCTCCC
TGAGGCAGAGGCTCCAGGACACGGTGGGTTTGTGTTTTCCCATGAGAACTTACAGCAAGCAGTCAAAG
CCTCTTTTTCCAATAAAAGAAAAATACATCTTTCTGAATTAATGCTGGAGAAATGCCCTTTTCTGTC
TGGCTCGGATTTAGCACAAAAGTGGCATTTGATTAAACAGCATACCGCCCCTGTGAGCCCACACTCAA
CATTTTTTGATACATTTGATCCATCACTGGTGTCTACAGAAGATGAAGAAGATAGGCTTCGCGAGAGA
AGACGGCTTAGTATCGAAGAAGGGGTGGATCCCCCTCCCAACGCACAAATACACACCTTTGAAGCTAC
TGCACAGGTCAACCCATTGTATAAGCTGGGACCAAAGTTAGCTCCTGGGATGACAGAGATAAGTGGAG
ATGGTTCTGCAATTCCACAAGCSAATTGTGACTCAGAAGAGGATTCAACCACCCTATGTCTGCAGTCA
CGGAGGCAGAAGCAGCGCCAGGTGTCCGGGGACAGCCACGCGCACGTTAGCAGACAGGGAGCTTGAA
AGTTCATACGCAGATCGATTACATACACTGCCTCGTGCCAGATTTGCTTCAGATCACAGGGAATCCCT
GTTACTGGGGCGTGATGGACCGATACGAGGCCGAAGCCCTTCTAGAAGGGAAACCGGAAGGCACGTTT
TTGCTCAGGGACTCTGCACAGGAGGACTACCTCTTCTGTGAGCTTCCGCCGCTACAACAGGTCTCT
GCACGCCCGGATCGAGCAGTGGAACCACAACCTTCAGCTTCGATGCCCATGACCCCTGCGTGTTCCT
CCTCCACWGTACGGGGCTTCTCGAACACTATAAAGACCCCAGCTCTTGATGTTTTTTGAACCGTTG
CTAACGATATCACTGAATAGAACTTCCCTTTTCAGCCTGCAGTATATCTGCCGCGCAGTGATCTGCAG
ATGCACTACGTATGATGGGATTGACGGGCTCCCGCTACCGTCGATGTTACAGGATTTTTTAAAAGAGT
ATCATTATAAAACAAAAGTTAGGGTTCGCTGGTTAGAACGAGARCCAGTCAAAGCAAAGtaactcctg
tccccaaagggcactaactaagtctgctcctcccgtgcatcmgaactgcacccataggraggcagtc
gctgctaggatttcccacccagaatgggagcttagtcattagcctctgccctatggggtcgctgttc
ctcagacaaaggtgcctagggacagcaagatggcttgaggtgttcggtgggctgtgacaactgaggg
aggcaactctggggcatttgctatgaagaattctatttcttaccgaagaacaaattattaatattgga
tgggtatttcaatagtgtgactaatgtttgaaattatTTTTTctaagaatttttctataaccttcaga
aaaagtagtgatgtttgtagttactataaatcaagctttgaaagttcaaaacaaacaagttaaataaa
agactaccttcccttttagagaaaacaaatgcaagtttcccagccacaggcattgtgcactgttaatg
ttagcttggttatcagctcctttctcctcc

Figure 20A

Appln. No. 08/962,560
Notice of Allowance Dated 8/10/04
Replacement Sheet

MDKVGKMWNNLKYRCQNLFSGGSRNENVMNPNRCPVKEKISLGEAAPQESSPLRENVALQLGLSPSKTFSRRNQ
NCAAEIPQVVEISIEKDSDSGATPGTRLARRDSYSRHAPWGKKKHCSTKTQSSLDTEKKFGRTRSGLQRRRERYGVSS
MQDMDSVSSRAVGSRLRQLQDTVGLCFPMRTYSKQSKPLFSNKRKIHLSLEMLLEKCPFPAGSDLAQKWHLIKQHTAPV
SPHSTFFDTFDPSSLVSTEDEEDRLRERRRLSIEEGVDPNPNAQIHTFEATAQVNPLYKLGPKLAPGMTESISGDGSAIPQX
NCDSEEDSTTLCLQSRQKWRWVSGD SHAHVSROGAWKVHTQIDYIHCLVPDLLQITGNPCYWGVMMDRYEAEALLEGKPE
GTFLLRDSAQEDYLFVSFRRYNRSLHARIEQWNHNFSDAHDPCVFHSSXVTGLLEHYKDPSSCMFFEPPLTISLNRTF
PFSLQYICRAVICRCTYDGLPLPSMLQDFLKEYHYKQKVRVRWLERXPVKAK*

Figure 20B

GATTAAACAGCATAACAGCTCCTGTGAGCCACATTCAACATTTTTTGATACTTTGATCCATCTTTGG
TTTCTACAGAAGATGAAGAAGATAGGCTTAGAGAGAGAAGGCGGCTTAGTATTGAAGAAGGGGTTGA
TCCCCCTCCCAATGCACAAATACATACATTTGAAGCTACTGCACAGGTTAATCCATTATTAAACTGG
GACCAAAATTAGCTCCTGGAATGACTGAAATAAGTGGGGACAGTTCTGCAATTCCACAAGCTAATTG
TGAAGCGGAAGAGGATACAACCAACCTGTGTTCAGTCACGGAGGCAGAAGCAGCGTCAGATATCTG
GAGACAGCCATACCCATGTTAGCAGACAGGGAGCTTGGAAAGTCCACACACAGATTGATTACATACA
CTGCTTCGTGCCTGATTTGCTTCAAATTACAGGGAATCCCTGTTACTGGGGAGTGATGGACCGTTAT
GAAGCAGAAGCCCTTCTCGAAGGGAAACCTGAAGGCACGTTTTTGTCTCAGGGACTCTGCGCAAGAGG
ACTACTTCTTCTGTGAGCTTCCGCCGATACAACAGATCCCTGCATGCCCCGAATTGAGCAGTGGA
TCACAACCTTTAGTTTCGACGCCCATGACCCGTGTGTATTTCACTCCTCCACTGTAACGGGACTTTTA
GAACATTATAAAGATCCCAGTTCGTGCATGTTTTTTGAACCATTGCTTACTATATCACTAAATAGGA
CTTTCCCTTTTAGCCTGCAGTATATCTGTGCGCGGTAATCTGCAGGTGCACTACGTATGATGGAAT
TGATGGGCTCCCTCTACCCTCAATGTTACAGGATTTTTTAAAAGAGTATCATTATAAACAAAAAGTT
AGAGTTCGCTGGTTGGAACGAGAACCAGTCAAGGCAAAGTAAACTCTCCGGTCCCCAAAGGGTGTTA
ACTAGGTCCGCTTTCATGTGCATCAGACAGTACACCTATAGCAAGCACACGTAGCAGTGTTAGGCTT
TTTCATACAGTATGTAAGCTTAGTGTTAGTATCTGTCAGATGCTACCTGCTGTTACTTATTACAGATA
AACATGGTGCCTATTGGAACAATAGCGGATAGAGCTACAGGTGTTTCAGTAAGACTACAAAAACATTT
TGCCTATTTTCGCTAACAGTTTGGTTTTTAATGGCTGTGGTATTTGAGTGAGGCAACTCTGGGGCATT
TGTTATGAAGAAATG

Figure 21

SOCS6

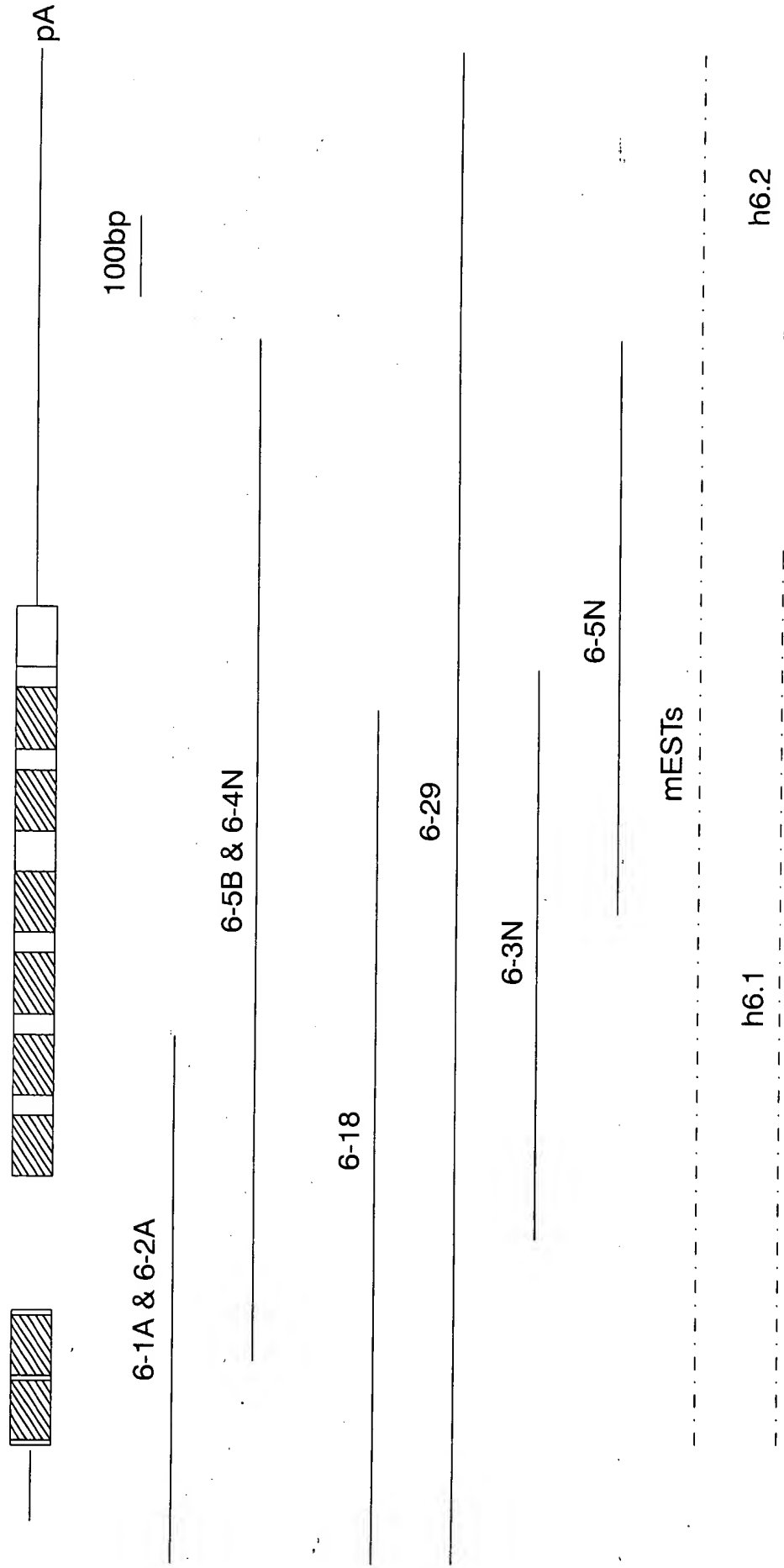


Figure 22

gaaaaaaaaaaaa

Figure 23A

Appln. No. 08/962,560
Notice of Allowance Dated 8/10/04
Replacement Sheet

MEAGEEPLLLAELKPGRPHQFDWKSSCETWSVAFSPDGSWFAWSQGHCVVKLVWPLEEQFIPKGFEAKSRSSKNDPKGRG
SLKEKTLDCGQIVWGLAFSPWPPSRKLLWARHHPQAPDVSCILLATGLNDGQIKIWEVQTGLLLNLSGHQDVVRDLST
PSGSLILVSASRDKTLRIWDLNKHGKQIQVLSGHLQWVYCCSISPDSCMLCSAAGEKSVFLWSMRSYTLIRKLEGHQSSVV
SCDFSPDSALLVTASYDTSVIMWDPYTGARLRLSLHHTQLEPTMDDSDVHMSSLSRVSVCFSPEGLYLATVADDRLLRIWALEL
KAPVAFAPMTNGLCCTFFPHGGIIATGTRDGHVQFWTAPRVLSSLKHLCKALKRSFLTTYQVLAALPIPKMKKEFLTYRTF*

Figure 23B

h6.1

GACACTGCATCGTCAAACCTGATCCCCCTGGCCGTTGGAGGAGCAGTTCATCCCTAAAGGGTTTGAAGCC
AAAAGCCGAAGTAGCAAAAATGAGACGAAAGGGCGGGGCAGCCCCAAAAGAGAAGACGCTGGACTGTGG
TCAGATTGTCTGGGGGCTGGCCTTCAGCCTGTGCTTTCCCCACCCAGCAGGAAGCTCTGGGCACGCCA
CCACCCCCAAGTGCCCGATGTCTCTTGCCTGGTTCTTGCTACGGGACTCAACGATGGGCAGATCAAGA
TCTGGGAGGTGCAGACAGGGCTCCTGCTTTTGAATCTTTCCGGCCACCAAGATGTCTGTGAGAGATCTG
AGCTTCACACCCAGTGGCAGTTTGATTTTGGTCTCCGCGTCACGGGATAAGACTCTTCGCATCTGGGA
CCTGAATAAACACGGTAAACAGATTCAAGTGTTATCGGGCCACCTGCAGTGGGTTTACTGCTGTTCCA
TCTCCCCAGACTGCAGCATGCTGTGCTCTGCAGCTGGAGAGAAGTCGGTCTTTCTATGGAGCATGAGG
TCCTACACGTTAATTGGAAGCTAGAGGGCCATCAAAGCAGTGTTGTCTCTTGTAAGTTCTCCCCCGA
CTCTGCCCTGCTTGTACGGCTTCTTACGATACCAATGTGATTATGTGGGACCCCTACACCGGCGAAA
GGCTGAGGTCACTCCACCACACCCAGGTTGACCCCGCCATGGATGACAGTGACGTCCACATTAGCTCA
CTGAGATCTGTGTGCTTCTCTCCAGAAGGCTTGTAACCTTGCCACGGTGGCAGATGACAGACTCCTCAG
GATCTGGGCCCCTGGAACCTGAAAACCTCCCATTTGCATTTGCTCCTATGACCAATGGGCTTTGCTGGCACA
TTTTTTCCACATGGTGGAGTCATTGCCACAGGGACAAGAGATGGCCACGTCCAGTTCTGGACAGCTCC
TAGGGTCCTGTCTCACTGAAGCACTTATGCCGGAAGCCCTTCGAAGTTTCCTAACAACTTACCAAG
TCCTAGCACTGCCAATCCCCAAGAAAATGAAAGAGTTCCTCACATACAGGACTTTTTTAAGCAACACCA
CATCTTGCTGCTTCTTTGTAGCAGGGTAAATCGTCTGTCAAAGGGAGTTGCTGGAATAATGGGCCAAA
CATCTGGTCTTGCAATTGAAATAGCATTTCTTTGGGATTGTGAATAGAATGTAGCAAAACCAGATTCCA
GTGTACTAGTCATGGATTTTTTC

h6.2

ACCATGGTTCCAAGTCCTCTCCCCTGTGGTCAAGTTGCCCGAATGTTGGGCCCAAGTGCCTTTTCCTC
CTTGGGCCTCCCCTTCTGACCTGCAGGACAGTTTTCCGGAGCCCATTGTTGGTATGAGGTATTAATTAGC
CTTAATAAATTACAGGGGACTCAGAGGCCGTGCTCCTGACCGATCCAGACACTATTTTTTTTTTTTTT
TTTTTAACAATGGTGTGCATGTGCAGGAAATGACAAATTTGTATGTCAGATTATACAAGGATGTATTC
TTAAACCGCATGACTATTCAGATGGCTACTGAGTTATCAGTGGCCATTATTAGCATCATATTTATTT
GTATTTTCTCAACAGATGTTAAGGTACAACCTGTGTTTTTCTCGATTATCTAAAAACCATAGTACTTAA
ATTGAAAAAAAAAA

Figure 24

SOCS-7

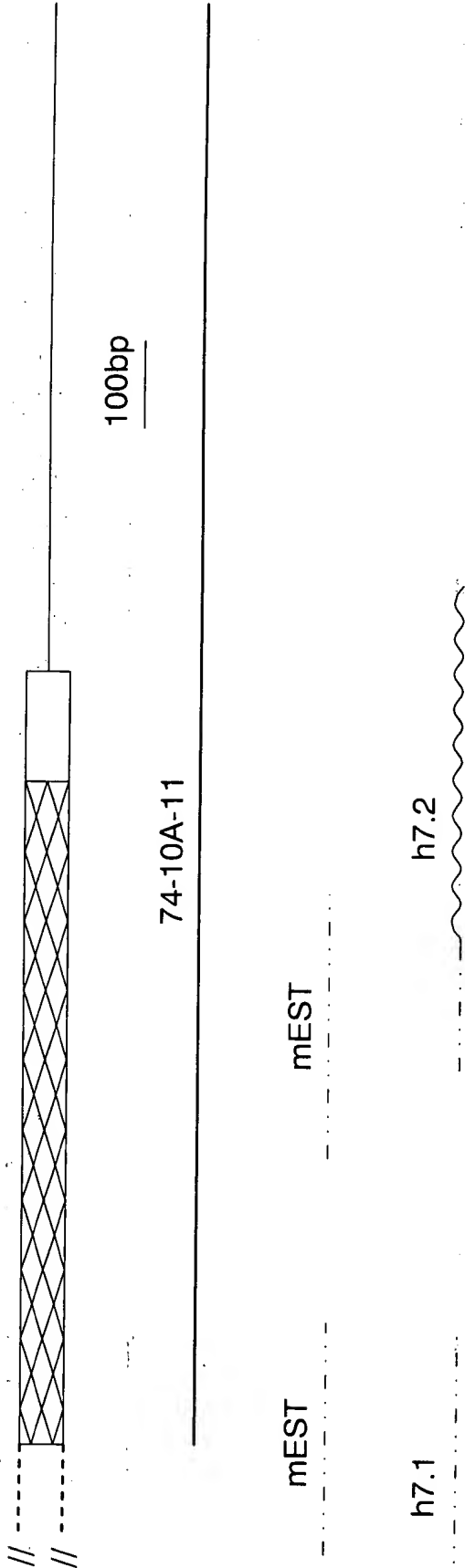


Figure 25

GGCACGAGGCGGGGT CAGGGCGGAGGCTGAGGACCAAGTAGGCATGGCGGAGGGCGGGACCGGCCCCG
ATGGACGGGCGGCGGCGGACCCGAGGTCTTAATCTGAAGGAGTGGCTGAGGGAGCAGTTCTGTGAC
CATCCACTGGAGCACTGTGACGATACAAGACTCCATGATGCAGCCTATGTAGGGGACCTCCAGACCCT
CAGGAACCTACTGCAAGAGGAGAGCTACCGGAGCCGCATCAATGAGAAGTCTGTCTGGTGCTGCGGCT
GGCTTCCCTGCACACCACTGAGGATCGCAGCCACTGCAGGCCATGGGAACTGTGTGGACTTCCTCATA
CGCAAAGGGGCGGAGGTGGACCTGGTGGATGTCAAGGGGCAGACTGCCCTGTATGTGGCTGTAGTGAA
CGGGCACTTGGAGAGCACTGAGATCCTTTTGGAAGCTGGTGCTGATCCCAACGGCAGCCGGCACCACC
GCAGCACTCCTGTGTACCATGCCTYTCGTGTGGGTAGGGACGACATCCTGAAGGCTCTTATCAGGTAT
GGGGCAGATGTTGATGTCAACCATCATCTGAATTCTGACACCCGGCCCCCTTTTTTACGGCGGCTAAC
CTCCTTGGTGGTCTGTCTCTATACATCAGTGCTGCCTACCATAACCTTCAGTGCTTCAGGCTGCTCT
TGCAGGCTGGGGCAAATCCTGACTTCAATTGCAATGGCCCTGTCAACACCCAGGAGTTCTACAGGGGA
TCCCCTGGGTGTGTCTGATGGATGCTGTCTCGCCATGGCTGTGAAGCAGCCTTCGTGAGTCTGTTGGT
AGAGTTTGGAGCCAACCTGAACCTGGTGAAGTGGGAATCCCTGGGCCCAGAGGCAAGAGGCAGAAGAA
AGATGGATCCTGAGGCCCTTGAGGTCTTTAAAGAGGCCAGAAGTATTCCCAGGACCTTGCTGAGTTTG
TGCCGGGTGGCTGTGAGAAGAGCTCTTGGCAAATACCGACTGCATCTGGTTCCTCGCTGCCGCTGCC
AGACCCCATAAAGAAGTTTTTGGCTTTATGAGTAGcattcacatgcagtgtgactgcaatgtggaagc
cgatcacctgcagtgaactgacacagactctggcatcctgggaaccatggcctgtgtgcccagctt
gatccttggctgtcagtgaagaaaaaacggctgtgttctcttggactgtgattctatctcaggtgctt
gggccatcgaacgctccttgagtcatgtcaactgagaggcacatacaaacttaattttgttcctctt
cagttctctgttttggattcttcctggcaatgtgtgcagcatgggctgagcctgggtgattgccctag
tggggaaggctttttctccaggtatgcatctatttatgttcctactttgcaatttattgttctttt
aaggcttgatatcaaacagaaagaggtttgttaagaaaagatataggagaaaaggaattccggttcc
gtgcacttgctagcctgctttccttgccctgggtttgtctgtctatgctgctgggtgcacatcccttct
ctttgctgccactgttctattttgggagttgtcttccgtctaagatggcttctggggttctatcttat
tgcacagaggtcccagaacagtgttcatagggcaccatctgctctgccagggttttctgatgtctta
ccctggggatcttcagacagtgggttacctttaggagaccacctggaactaaccattaagtgactgcc
cacattcagatcagggaccatcttaatagtactcactgccagtcctcacaagagaagatgacacgggt
gtctctcttcagacactcccatacaggaagtggaaaatgtcttgggtcacctgggttgttcccaggcta
caacttcttgggtgttccactaaraccagratatcctagtttttgggttgactgttccctccccactt
tccttgaancccaatgccntttgtktnnggttgcttccctaaaaktt

Figure 26A

Appln. No. 08/962,560
Notice of Allowance Dated 8/10/04
Replacement Sheet

...ARGGVRAEAEQVGMAEGGTGPDGRAGPGPAGPNLKEWLREQFCDHPLEHCDDTRLHDAAVVGDLQTLRNLLQEESY
RSRINEKSVWCCGWLPCPTPLRIAATAGHNCVDFLIRKGAEVDLVDVKGQTALYVAVVNGHLESTEILLEAGADPNCSRHH
RSTPVYHAXRVGRDDILKALIRYGADVNVNHHNSDTRPPFSRRLTSLVVCPLYISAAYHNLCFCRLLQAGANPDFNCNG
PVNTQEEFYRGSPGCVMDAVLRHGCEAAFVSLIVEFGANLNLVKWESLGPEARGRRKMDPEALQVFKEARSIPTLLSLCRV
AVRRALGKYRLHLVPSLPLPDPIKKFLLYE*

Figure 26B

h7.1

GCATCCATGGCGGAGGGCGGCAGCACGACGGGCGGGCAGGGCCGGGCTCCGCAGGTTCGTAATCTGAAG
GAGTGGCTGAGGGAGCAATTTTGTGATCATCCGCTGGAGCACTGTGAGGACACGAGGCTCCATGATGC
AGCTTACGTCGGGGACCTCCAGACCCTCAGGAGCCTATTGCAAGAGGAGAGCTACCGGAGCCGCATCA
ACGAGAAGTCTGTCTGGTGCTGTGGCTGGCTCCCCTGCACACCGTTGCGAATCGCGGCCACTGCAGGC
CATGGGAGCTGTGTGGACTTCCTCATCCGGAAGGGGGCCGAGGTGGATCTGGTGGACGTAAAAGGACA
GACGGCCCTGTATGTGGCTGTGGTGAACGGGCACCTAGAGAGTACCCAGATCCTTCTCGAAGCTGGCG
CGGACCCCAAC

h7.2

GAGGAAGAAGAAAAGTGGACCCTGAGGCCTTGCAGGTCTTTAAAGAGGCCAGAAGTGTTCCAGAACC
TTGCTGTGTCTGTGCCGTGTGGCTGTGAGAAGAGCTCTTGGCAAACCGGCTTCATCTGATTCCTTCG
CTGCCTCTGCCAGACCCCATAAAGAAGTTTCTACTCCATGAGTAGACTCCAAGTGCTGCGGTTGATTC
CAGTGAGGGAGAAAAGTGATCTGCAGGGAGGTGGACACCGAGCCCTGAGTGCTGTGCTGCTGCTGGTCT
CCTGATGGCTGTTGCTGCAGAAGATGTCCTCGTAGACTGTCATTGCTCCTCAGGTGCCTGGGCCGCTG
AACAGTCCTTGGGTCAATTGTCAGCTGAGAGGCTTATACTAAAGTTATTATTGTTTTTCCCAAGTTCTC
TGTTCTGGATTTTCAGTTGCATATTAATGTAACGGGCCATGGGGTATGTACATGTAGGGGCTGAGGTT
GGAGGCCTACTAATTTCTGTAGGGAAGACTCCCAGCACTTCTGGAACTGTGCTTCTCTTTATTTTTC
TACTTCTCAATTTGATGGTTTCGATTAAAGCCTTCTAGTATCTCAATGAAAA

Figure 27

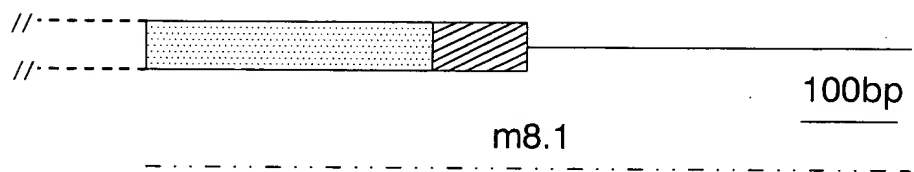


Figure 28

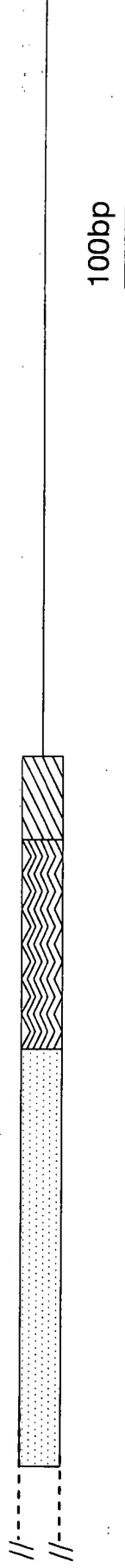
CTGATGTCCGCAATTCTGAAGGTTGGACACCACCTGCTGGCTGCCTGTGACATCCGCTGTCAATCCCC
AAAGGATGCTGAGGCCACCACCAACCGCTGTTTTCAACTGTGCCGCTTGCTGCTGTCTGTGGGGGCA
GATGCTGATGAATACATACCGTGTAGTTCAGCTTCCTGAGGAGGCCAAGGGCTTGGTGCCACCAGAG
ATTCTACAGAAGTACCATGGATTCTACTCTTCCCTCTTTGCCTTGGTGAGGCAGCCCAGGTCGCTGC
AGCATCTCTGCCGTTGTGCGCTCCGCAGTCACCTGGAGGGCTGTCTGCCCCATGCACTACCGCGCCT
TCCCCTGCCACCGCGCATGCTCCGCTTCTGCAGCTGGACTTTGAGGATCTGCTCTACTAGgcttgc
tgccctgtgaacaaagcagaccccccccccaagggcatctctcagcaatgaatgatgcaagg
cggctctgtcttcaagtcaggagtggaacgccttgatccacacttgagagaagaggccagatcagcacc
yggctggtagtgatngcagagggcacctgtgcagatctgtgtgcgcaactggaaatctctaggctgaa
ggcyagagcaaattggtgcargtgtagtccttgggangagagacaganggtgagaaagcaagacaga
ggtgagagtgcacatgtcaagtggtagattgccttaaaagaaagctaaaaaaagaaaaagattcggg
cgaacttctttaggggtaatgctgcagcgtgttaaactgactgaccagcgtccatatcttggaccc
ttcccgggtgaaaaagccccttcacctccagcgtccccaaggggtgcttagcaataccgggtgctt
ttctgccgcaaagtgagttaccaa

Figure 29A

...MSAIIKVGHHCWLPVTSAVNPQRMRLPPPTAVFNCAACCCLWGQMLMNTYRVVQLPEEAKGLVPPPEILQKYHGFYS
SLFALVRQPRSLQHLCRCALRSHLEGCLPHALPRPLPPRMLRFLQLDFEDLLY*

Figure 29B

SOCS-9



h9.1

m9.1

Figure 30

GTGGGGGCGTCATCATGACCTCCTCTAGGGCTCTGCAACATGACTCCTGTGGTGCAAATCAACAAAT
TGTTCACTGATGAATCCACAAGGATCTCTGGGCCTACAACCAGGTCCTGGTCCACATGACTGTCGTC
TTCGGAGAAGGCACCACTCGCCCCCGGCAGGTACGGCTGACACCTCCATGGGAGAAGACGTATCCAG
GCAGCAGCTGCGCGGCCCTTCAAGAGGGCACATCCCGTCATCTAAAGGCACGGTGTACTGAAGGTAG
TCCTGAGACATGAGTCCGATTACTACAGGCACGTGTTCCCTCCAGGTGGAGGCTCAGGTCCCCGGGTG
AGCTGGGGCTGCAGCGGGACTCAGGGCGCGGCTCTGGCTGCAGGTCTCGCAGCTCCCTGGGCTGTAG
CTCCCGCAGATCCTTGCGCACACCGTTGACTGGT

Figure 31

TTAATAGTACCTACATAGTAGAAAAATTATAAACTCCACTTTTAAACAATGTTTTCTTTCTATTCTAAATCAATTTAAAACTTTTATATAAACATTAATGTTGCAAGAG
AATCCAGTCCATTTTATGAAAAATTAGTTGACAAATCAAGTTTCAACCAGAAAAATGTTGACTAAAGCTAAAGAAAAATCACAGATAAAAAATTTTACCAAAAAGGATAGGTA
ACACACAAAAAAATGCTATACAGGAAGCTATGATCATCTAAATATTCTTTAAATAATAATCTAGTTCATAGGTTTTCATGTTATGCGCAATTTGTACCCCGAGTT
TAATTAACAGAAAAAGGCAACAATTTCTAAATTGGTGGTATACATTTCTTTTACAATTTTAAATGTAAGGCCATTTATTAATAATAGACAAACTAGAAAGATGAAAAACG
AAGGCAACAGAAAAAATTCAACTTTTTCACAAACCAAAAGAAATAGCACAACTTAGAAAAATAATTTAGAAAAAAGTGTGTATAAAGATATGTTGCAGATCTCCGTTTC
CATTAACCCCAAGATTATGTCAATTCACGATTCTAAATAAATCTTTTAAAGTAAGAGATTAAAACTCATCTTCAGTGTATATGTAAATTCGTTGGTTTATATCACACA
CAGGTATGTTTATTCAAACACTGCTTTTGGAAATGGACCATTAAAGGACATGGCAATTTCCATTTCTGTTAAAGTTTCATTCAACCTTTACTTAGGGGTTGATTACC
ACATGAAATGTGCTTTTAAATGCATAAAAAATCACAGTGGATTAGCCAGCAAAAGGCACTGGCGGGGGGGGCAATTGAGGAGAAATTTGATAAATTCACATTTGTGATTAA
TTCTGCACATTTGATGAAAAATAAATTCACACCTCTAAAAA CCTCAAGACTTCCCTTTTAAAGAAACCAAAATAAAACCAAGACACCTTGTGTGACACTTCCCCACCC
CTAAACAAA CTGATGACTCTTTTACACATAAAAACTGAAATAGTTATGGCAGCAAAAGATTTTGATGGCAATGAAAAGTTTGTATAAATCTGTAATTTCAAATCTCTTGTGTTTC
TTATTCCCAAAGTGCAAGATGCAGGGTTCTCAATCTTTTCAGTAGTGTCTCTCTGTAATAATAATCCCTTCATTTTGTGTTTGGCAAAGGCAGTTTCTGAATTAAGTCTA
TTCTGGTATACTGACGTATACTGAATGTAACAAAACGACACAGGTACTGCAACGAGCGCACCTATGAACCCCGGAAACACTGGTTTGGCAAAGTCTGACGGAAGTGCAGATTCAG
GCAGCGAGACCTTGAATAACAAAAAGCTCCCATTTTCAGAGTCCCTGATTGAAATGCTCCAATTAGATCAACTATGGACGTATGTCTTCCACATCGGCTGTTTCAT
AAAAAGCTAAACCTACCATTTGAGTGTCTCAATTTCTAGTGTGAAGTGTTTTACCATGGGAGCGAAAGTCAAGCTTAAAAAGGTAAACGGTCGTGAGAACTGTCCCCGAA
CAAGAAAAGAACCATCTGGCACGTTTGTAGCTTCCCTTCTGCCTCCCAACGTTGTGATTGGTCCCCCAGTACCATCCCTTGTCTTGCAGTTTTCAGCTCCTCTG
TAAGGCTTGTCACAACCATGGGACCACTACTTTGCACTGAGTCAATAAACTCTTTGCAACCCAGGAGCAGAGTTCCGGATCAAAATTCAAATGACAGCGCATAACTTT
TCAGCCACGTGGGGCTTTCTGTCCAGTGAGTCCACTGAAAAGTTCCCCCTTTGGGATTTGGATTATTTCTGTCAATTGGAGTAAACCAATGGTGAAGATTGGAGGGGACAT
CCATCGTGAAACCCGCTCTCCGGGGTTCTGCAACATGACTCCCGTGTGCCAATCAA CAAGCCATTCAACCGGACTGATCCACGAAGATCTCTGGGGCGACAACTAG
GTCTGTGTTCTA CCTGACTCTCATCTCTCGGGGAAAGCGGCCCTCCCACTTTGAGGAGGAAACCGCAGAGACTTCCATGGGAGAAAGAGCTGTCCAGACAATAGCTCCG
TGATCCTTCCAAAGGATACATCCCCCTCATCTAAAGGCA CAGTATACCTGAATGTAGTCTGTAGGCAATAAGTCCAAATAACGACAGGCACATGTTTCATCCAGGTGAAG
ATGCAGGTCTCCATTATGAGAAGCCGAGCTCTTCAGTGAATTTGGCTTGCTCTCTGGCACGTGGTCTCAGACTGGAGGTCTCGT

Figure 32

SOCS-10

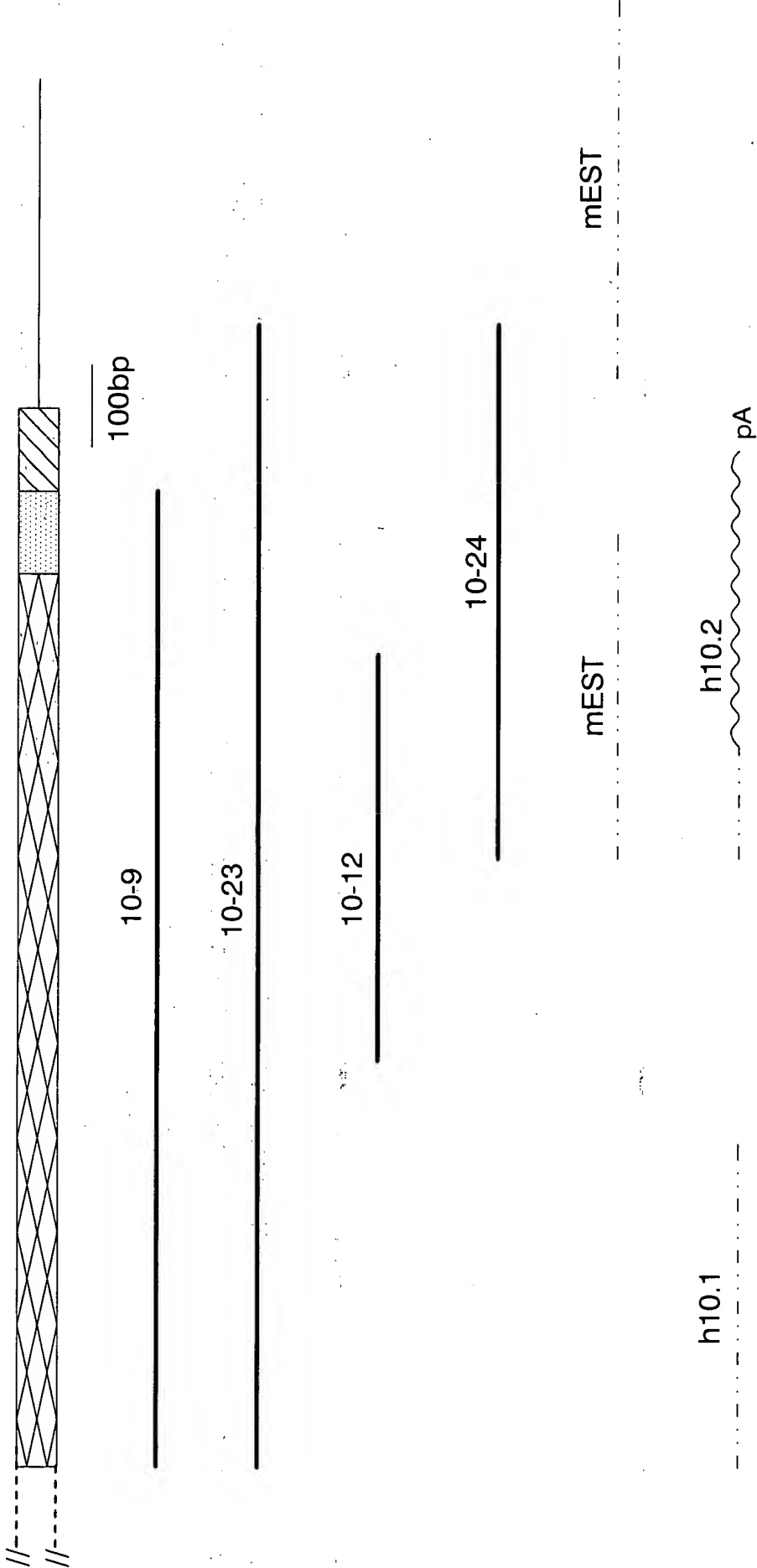


Figure 33

GGCACGAGGCTGTCCAGCACACAGAGAGGGCCCGGCCCATCTGCTTTGGTTTCAGAGCCCTGTGTCTGTCTGTCACTTAGACTCTTCTCCCTCCGGCT
CGCAGCTCACCTCCATCCTCTTACTGGCTCCAGCATGACTCGCTTCTTATGACAGAGTACTTTGCTCTGTTTCACTCTGGCTCTGACACCTTCC
AGGTCCCTTTCGTCTCCCGAGAACCCACCGGCCCGCCACCTGGGTCTGTTCGAAGGGTTCATGACAGAAATAGCAGCAACCTGTTCAAGACC
TCCCAGATGGCGGCTATGGACCCCGTGAAGCCCATCAAGGAAGGGATGAAGAGGCCTTGAAGATCATGATCCAGGATGGGAAGAAATCTTGCA
GAGCCCAACAAGGAGGCTGGCTGCCGCTCCACAGGCTGCCTACTATGGCCAGCTGGGCTGCCCTGAAAGTCTTCAGCAAGCCCTACCCAGGGACC
ATTGACCAACGCACACTGCAGGAAGAGACAGCAATTATACCTGGCCACATGACAGAAACA CTTGGATTGCCCTCCTGTCTGCTGCTCAGGCGGGGCA
GAGCCTGACATCTTAACAATACTCAGGGAGACTCCACTTTACAAGCCTGTGAGCGCAAGAACGCGAGGCGGTGAGGATATTGGTGCGGATACAAC
GCAGACGCCAACCAACCGCTGTAAACAGGGGCTGGACCGCACTGCACGAGTCTGTCTCCCGCAATGACCTGGAGGTTCATGGAGATCCTAGTGAGTGGC
GGGCCAAAGGTGAGGCCAAGAAATGTCTACAGCATCACCCCTTTGTTTGTGGCTGCCAGAGTGGG CAGCTGGAGGCCCTGAGGTTCTCTGGCCAAAG
CATGTTGCAGACATCAACACGCAGGCCAGTGACAGTGCATCAGCCCTCTACGAGGCCAGCAAGAAATGAGCATGAAGACGTGGTAGAGTTTCTTCTC
TCTCAGGGCGCCGATGCTAACAAAGCCAAACAGGACGGCTCTCCCTGTCATGTTGCCCTCAAGAAAGGCAACTATAGAATAGTGACAGATGCTG
CTGCCCTGTGACACCGCACCGCGGTGCGCGTAGCGGCATCAGCCCGCTGCACCTAGCGGCCGAGCGCAAC CACGACGCGGTGCTGGAGGCGCTG
CTGGCCGCGGCTTCGACGTGAACGCACCTCTGGCTCCCGAGCGGCCCGCTCTACGAGGACCGCCG CAGTTCTGCGCTCTACTTTCGCTGTGCTC
AACAACAATGTGTACGCCACCGAGCTGTTGCTGTGGCGGCGGACCCCAACCGCGATGTCTATCAGCCCTCTGCTCTGTGGCCATCCGCCACGGC
TGCCCTGCGCACCATGCAGCTGCTGTTGGACCATGGCGCCAAACATCGACGCCCTACATGCCACTCACCC CACCGCTTTCAGCCACCATCATGTTT
GCCATGAAGTGCCCTGTCTACTCAAGTTCTTATGGACCTCGGCTGCGATGGCGAGCCCTGCTTCTCTGCTGTACGGCAACGGGCGCACCCAC
CCGCCCGCGACCTGGCCGCTTCCACGACGCAACCGGTGACCGAACAGGCACCTAGCGTGGTGCAGTTCTGTGAGTTCTCTGCTGCTCGGCCCGGAAGTGA
GCCGCTGGCGGGACCCATCATCGATGTCCTCTGGAATATGTGGCAACGTGCAGCTGTGCTCCGGCTGAAGGAGCACATCGACAGCTTTTGAGG
ACTGGGCTGTCATCAAGGAGAAGGCAGAACCTCCGAGACCTCTGGCTCACCTCTGCCGGCTGCGGGTTTCGGAAGGCCATAGGAAATAACCGGATAA
AACTCCTGGACACACTGCCGCTTCCCGCAGGCTAATCAGATACTTGAATAATAGAAATACACAGTAACcagcctggagaggagatgtggccttca
gactgtttccgggagccccagggtggcctgcatccaggacccccctgggtcagaaacagggtgtgacctgtgtgttcttggctggagcttcacccaa
agtgagaacctgatgtgggagtggacctggaacctctgctttcacactgtcagcggatcgagacccgctctgcttctggccatagccagagacc
ttcaacctggggccaggagagctggtctggcaagggtggccaggcaggaaatcctggcctaaagctggagaaactgtaggaaatccctcaactgga
ccctcagctttcaggctgcgagggagacggccagcccaagtattttatctccgtgacacaaataacgttgtatcagaaaaaaacacatgggctg
cagcttattccttagtagggtatttacttgcatgcgcgttaaagctactggaaacatgcgttccactatgcttgagaatcccccttgactgggttaa
acgagagccgactgcttcaagggtggatttttgggtgcccccttggcgttccgcggtttgtccgacgtaattgaccccggttttgtcactttc
gagtgttccgactattggggggcttttgggtgtccccaaaaattgtgggtggtgtgcggacgccccacgagaaagtgttcatggcgataatcattact
ggagaatgtagagcggcgttttacgaataaataattttttaagcgccttccccaaa

Figure 34

h10.1

CCTCCTGAGAGTTGCGCCGGCCCGGCCCAATGGGnTTGTTCCAAGGGTCAATGCAGAAATACAGCAGCAGCTTGTTC AAG
ACCTCCCAGCTGGCGCTGCGGACCCCTTGATAAAGCCCATCAAGGATGnCGATGAAGAGCCCTTGAAGACCATGATCAA
GGAAGGAAGAAATCTCGCAGAGCCCAACAAGAGGGCTGGCTGCCGCTGCACGAGGCCGCATATACTATGGCCAGGTGGGCT
GCCTGAAAGTCCTGCAGCGAGCGTACCCAGGGACCATCGACCAGCGCACCTGCGAGGAGGAAACAGCCGTTTACTTTGGCA
ACGTGCAGGGGCCACCTGGACTGTCTCCTGTCACTGCTCCAAGCAGGGGCAGAGCGGACATCTCCAACAATCCCCGAGA
GAnACCGCTCTACAAAGCCTGTGAGCGCAAGAACCGGAGCCGTGAAGATTCTTGGTGCAGCACAAACGCAGACACCAAC
AACGCTGCAACCCGGGCTG

h10.2

GTGCAGCTCTGCTCGCGGCTGAAGGAACACATCGACAGCTTTGAGGACTGGGCCCGTCATCAAGGAGAAGGCAGAACCTCC
AAGACCTCTGGCTCACCTTTGCCGACTGCGGGTTCGAAAGGCCATTGGGAAATACCGTATAAAACTCCTAGACACCTTGC
CGCTCCAGGCAGGCTGATTAGATAACCTGAAATACGAGAACACCCAGTAACCTGGGCCACGGGAGAGAGGAGTAGCCCC
TCAGACTCTTCTTACTAAGTCTCAGGACGTGCGGTGTTCCCAACTCCAAGGGACCTGTTGACAGAcGAGGCTGCAGGCTG
CCTCCCTCTCAGCCTGGACAGCTACCAGGATCTCACTGGGTCTCAGGGCCAGAGCTTTGGCCAGAGCAGAGAACAAGAT
GTGTCAAGGAGAAGATCATTTGTTTACAAACTGATGAGCAGATCCAGACCTTCTCTACCTTCAGGAATGGCAGAAACC
TCTATTCTCTGGGCCAGGCAGAGCTTGAGGTGTTCTGGGGAAGGTGGTGTCTCAGAGCCTTCCCTGTGCCCTCCACTTG
TTCTGGAAAACTCACCACCTTGACTTCAGAGCTTTCTCTCCAAAAGACTAAGATGAAGACGTGGCCCAAGGTAGGGGTAGG
GGGAGCCTGGGTCTTGAGGGCTTTGTTAAGTATTAATAATAATGTTACACATGTGAAAAA

Figure 35

TTGGAGAAGTGTGGTTGGTATTGGGGGCCAATGAATTGGGAAGATGCAGAGATGAAGCTGAAAGGGA
AACCAGATGGTTCCTTCCTGGTACGAGACAGTTCTGATCCTCGTTACATCCTGAGCCTCAGTTTCCG
ATCACAGGGTATCACCCACCACACTAGAATGGAGCACTACAGAGGAACCTTCAGCCTGTGGTGTCA
CCCAAGTTTGAGGACCGCTGTCAATCTGTTGTAGAGTTTATTAAGAGAGCCATTATGCACTCCAAGA
ATGGAAAGTTTCTCTATTTCTTAAGATCCAGGGTTCCAGGACTGCCACCAACTCCTGTCCAGCTGCT
CTATCCAGTGTCCCGATTAGCAATGTCAAATCCCTCCAGCACCTTTGCAGATTCCGGATACGACAG
CTCGTCAGGATAGATCACATCCCAGATCTCCCACTGCCTAAACCTCTGATCTCTTATATCCGAAAGT
TCTACTACTATGATCCTCAGGAAGAGGTATACCTGTCTCTAAAGGAAGCGCAGCGTCAGTTTCCAAA
CAGAAGCAAGAGGTGGAACCTCCACGTAGCGAGGGGCTCCCTGCTGGTCACCACCAAGGGCATTG
GTTGCCAAGCTCCAGCTTTGAagaaccaaattaagctaccatgaaaagaagaggaaaagtgaggaa
caggaagggtgggattctctgtgcagagactttggttccccacgcaagccctggggcttggaagaag
cacatgaccgtactctgcgtggggctccacctcacacccacccctgggcatcttaggactggagggg
ctccttggaactggaagaagtctcaacactgtttctttttca

Figure 36A

...LEKCGWYWGPMNWEDAEMKLGKPDGSLVRDSSDPRIYILSLFRSQGITHHTRMEHYRGTFSLWCHPKFEDRCQSV
VEFIKRAIMHSKINGKFLYFLRSRVPGLPPTPVQLYPVSRFSNVKSLQHLCRFRIRQLVRIDHIPDLPLPKPLISYIRKFY
YYDPQEEVYLSLKEAQRQFPNRSKRWNPPRSEGLPAGHHQGHLLVAKLQL*

Figure 36B

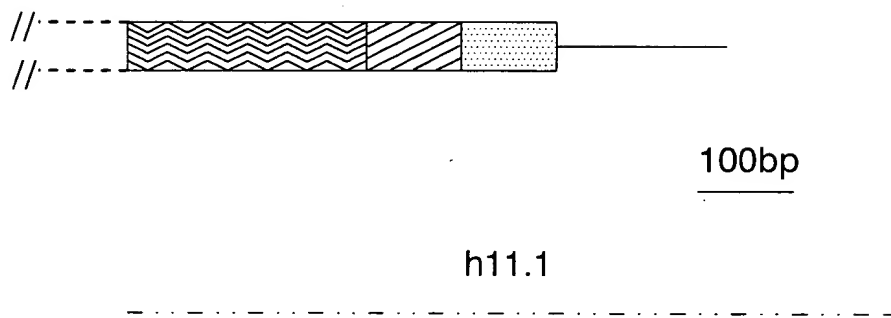


Figure 37

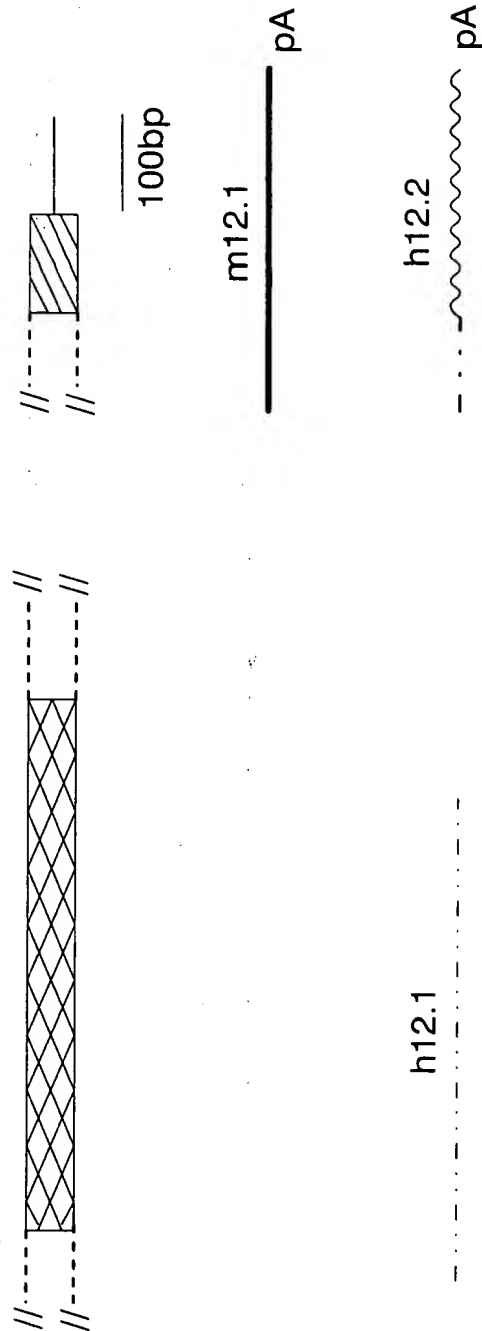


Figure 38

GTTCCAAGCCTAACCCATCTTTGTCGTTTGGAAATTTCGGGCCAGTCTAAAAGCAGAGCACCTTCACT
CTGACATTTTCATCCATCAGTTGCCACTTCCCAGAAGTCTGCAGAACTATTTGCTCTATGAAGAGGT
TTTAAGAATGAATGAGATTCTAGAACCAGCAGCTAATCAGGATGGAGAAAACCAGCAAGGCCACCTGA
cacaggtcctttaattctgttttagtcacaaaagacggcttgtgtgactgtttggatttggtgatcaa
atgtccatgtttacagttgcttttcccagtttgtgtctttcccaatattgtgaaccttatccatctt
gccttactcagttttatttctagtgcactttgttgtgtattatttgtttacctgaccattttctact
ttattctgctaataaactgtaattctgaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa

Figure 39

h12.1

GGGGATCGAAAGCGGGGGCTTCTGGGACGCAGCTCTGGAGACGCGGCCTCGGACCAGCCATTTTCGGT
GTAGAAGTGGCAGCACGGCAGACTGGTCAAACAAATGGATTTTACAGAGGCTTACGCGGACACGTGC
TCTACAGTTGGACTTGCTGCCAGGGAAGGCAATGTTAAAGTCTTAAGGAACTGCTCAAAAAGGGCC
GAAGTGTGATGTTGCTGATAACAGGGGATGGATGCCAATTCATGAAGCAGCTTATCACAACTCTGT
AGAATGTTTGCAAATGTTAATTAATGCAGATTCTCTGAAAACCTACATTAAGATGAAGACCTTTGAA
GGTTTCTGTGCTTTGCATCTCGCTGCAAGTCAAGGACATTGGAAAATCGTACAGATTCTTTTAGAAG
CTGGGGCAGATCCTAATGCAACTACTTTAGAAAGAAACGACACCATTGTTTTTAGCTGTTGAAAATGG
ACAGATAGATGTGTTAAGGCTGTTGCTTCAACACGGAGCAAATGTTAATGGATCCCATTCTATGTGT
GGATGGAACTCCTTGCAACCAGGCTTCTTTTCAGGAAAATGCTGAGATCATAAAATTGCTTCTTAGAA
AAGGAGCAAACAAGGAATGCCAGGATGACTTTTGAATCACACCTTTATTTGTGGCTGCTCAGTATGG
CCAAGCTAGAAAGCTTTGAAGCATACTTATTTTCATCCGGGTGCAAATGTCAATTGTCAAGCCTTGGA
CAAAGCTACC

h12.2

CACAAATGGGACCATACAAAAATCTTGGACTTGTTAATAACCACTTACTAACCGGGACCTGTGACAC
TGGGCTAAACAAAGTAAGTCCCTGTTTACTCAGCAGTGTTTGGGGGACATGAAGGATTGCCTAGAAA
TATTACTCCGGAATGGTCTACAGCCCAGACGCCCAGGCGTGCCTTGTTTTTGGATTGAGTTCTCCTG
TGTGCATGGCTTTCCAAAAGGAGGTGGAGCTGTAGTTCTTTGGAATTGTGAACATTCTTTTGAAATA
TGGAGCCCAGATAAATGAACCTTCATTTGGCATACTGCCTGAAGTACGAGAAGTTTTTCGATATTTTCG
TACTTTTTGAGGAAAGGTGCTCATTGGGACCATGGAACCATATATATGAATTTGTAAATCATGCAA
TTAAAGCACAAGCAAAATATAAGGAGTGGTTGCCACATCTTCTGGTTGCTGGATTTGACCCACTGAT
TCTACTGTGCAATTCTTGGATTGACTCAGTCAGCATTGACACCCTTATCTTCACTTTGGAGTTTACT
AATTGGAAGACACTTGCACCAGCTGTTGAAAGGATGCTCTCTGCTCGTGCCTCAAACGCTTGGATTCT
TACAGCAACATATTGCCCCTGTTCCATCCCTGACCCATCTTTGTGCTTGGAAATTCGGTCCAGTC
TAAAATCAGAACGTCTACGGTCTGACAGTTATATTAGTCAGCTGCCACTTCCCAGAAGCCTACATAA
TTATTTGCTCTATGAAGACGTTCTGAGGATGTATGAAGTTCCAGAACTGGCAGCTATTCAAGATGGA
TAAATCAGTGAACTACTTAACACAGCTAATTTTTTTCTCTGAAAAATCATCGAGACAAAAGAGCCA
CAGAGTACAAGTTTTTATGATTTTATAGTCAAAGATGATTATTGATTGTCAGATAGGTTAGGTTTT
GGGGGGCCAGTAGTTGAGTGAAGATGTTTATGTTTACAACCTAGCCTTCCCAGTAAAAAAAAAAAAA
AAAAAAAAAAAAA

Figure 40

SOCS-13

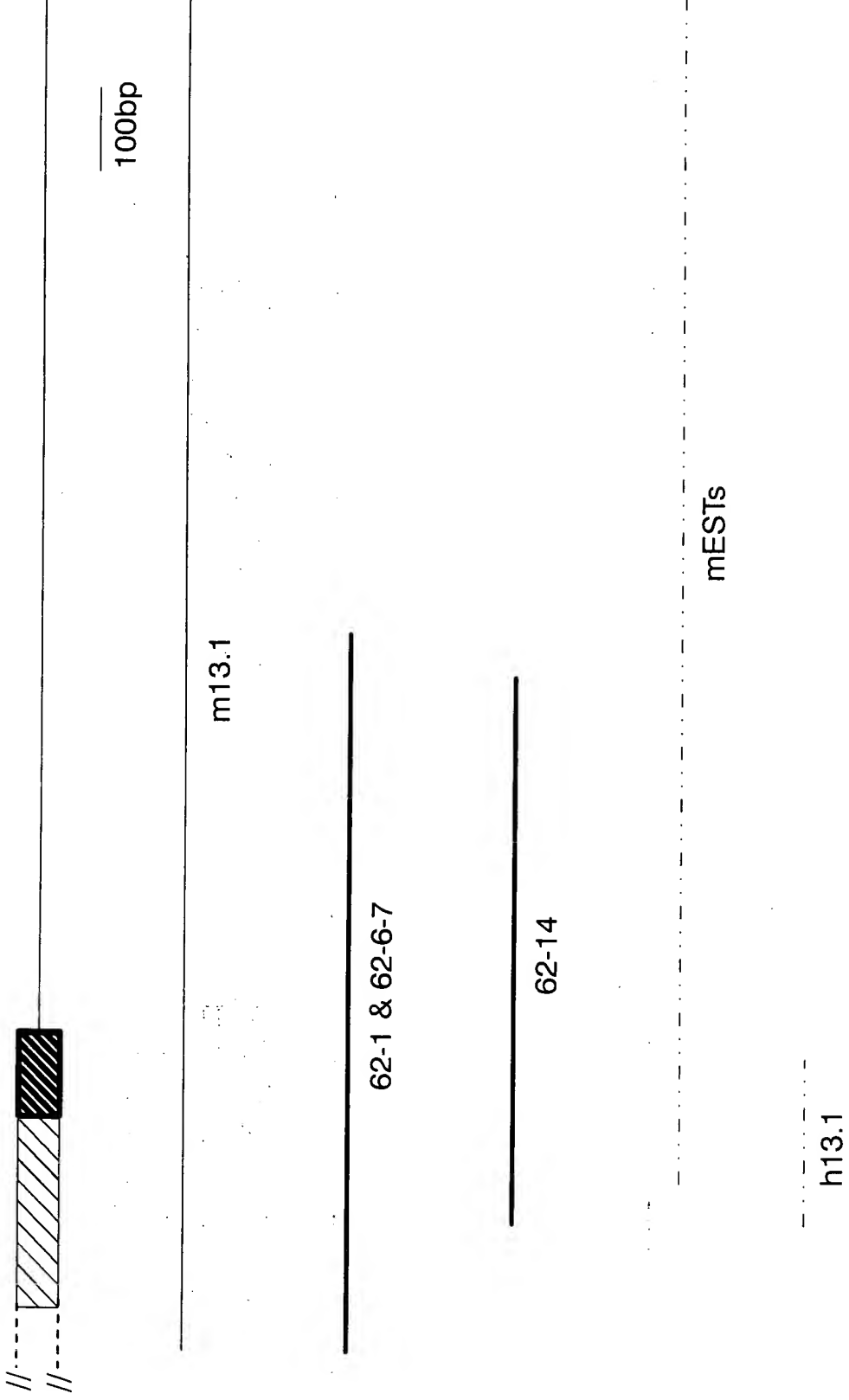


Figure 41

CGGGGGGCTGGGACCTGGGGCGTAACCGTCTCTACCACGACGGCAAGAACCAGCCAAGTAAAAACATA
CCCAGCCTTTCTGGAGCCGGACGAGACATTTCATTGTCCCTGACTCCTTTTTTCGTGGCCCTGGACATG
RATGATGGGACCTTAAGTTTCATCGTGGATGGACAGTACATGGGAGTGGCTTTCGGGGGACTCAAGG
GTAAAAAGCTGTATCCTGTAGTGAGTGCCGTCTGGGGCCACTGTGAGATCCGCATGCGCTACTTGAA
CGGACTTGATCCTGAGCCCCTGCCACTCATGGACCTGTGCCGGCGTTCGGTGCGCCTAGCGCTGGGA
AAAGAGCGCCTGGGTGCCATCCCCGCTCTGCCGCTACCTGCCTCCCTCAAAGCCTACCTCCTCTACC
AGTGATccacatcccaggaccgccatacgacagccatctggtgccaartcactgagcccgttggggt
ccgccgacccctgcgcttgggatggaagcccacctcagccatgggcagacgtgccccctcatcctac
cggctgcctctgctgggggaacctatgccaacggacttctcccttcccaacactgggtgaagcagca
gcacccaggcccttccctgaaccagatgcagagaataaaactatgaaaacctctctcaggcgccttct
gctctcaggtggagtgggctgccccccactctctgcagagagaggctacacccacctgggggggtcct
gggaggtgaagactagtaggaggtgccagggctgartccaaaagcaggaatggccaggamcaggccat
acagatgaagctcaggatgtcacataccatggacamtgagacagaaccccagggttggamttcccttg
ggccaacgagtgccagctttaatgtcagctgcmggtgctctgtggcctgtatttattctttaaacag
tagcaaaggccattttatttattccacttagaaaggaaaccttggtgggtggyttccctcgatgtgct
ttccccacctccctggaatgtgtgtgccacacctgtccttgctccaggccaggactgtggcacatg
agctggtgtgcacagatacacgtatgtcgtcgtgcagacccctgactagttcctaagtagccctgc
accaagcaccagagcagaccccaagagaggcccggtgcaagtccccatgtccccagggtccctgcttct
gttgccctgggactcatacaccggcacacgtgtttcagcctcttgacttccatgagcttcgaatttt
gcccccgattcttctgatatttcccattggcatcctccaaagctctgggcctggagggcattaggac
acatggaatgagtgggggtctccagccccctgggaaagccactggcaaggcaggattagaaagaccaag
agcaggggtggggcgccatgaagcctgtatgcctctcaggctcaagaccccgccacacacccactcaa
gcctcagaagtgggtgtgtagggcagccccaggagaggaatgcctgtcctagcagcacgtacatggag
caccacacatgtgctccagccctctggctgtttctcttgctctagaatcaactccctacattgggaa
tgtagccatttggttagaggacttgccctagcctgcaggaagctcacgttccatccccctgcaccaagga
gaatcaaagctcaggaggctgaggcaggaggattgctgtcagtggtgtacagaggtcatggccatcc
tgggctatattaaaccttgctctttaagaaaaagaaaagaaatcaacttccattgaatctgagttct
gctcatttctgcacaggtacaatagatgacttkatttggtgaaaaatgkttaatatatttacmtata
tatatatttgtaagaagcatt

Figure 42A

...GGWDLGRNRLYHDGKNQPSKTYPAFLEPDETFIVPDSFFVALDMXDGTLSFIVDQQYMGVAFRGLKGKKLYPVVSAV
WGHCEIRMRYLNGLDPEPLPLMDLCRRSVRLALGKERLGAIPALPLPASLKAYLLYQ*

Figure 42B

AAGGGTAAAAAACTGTATCCTGTAGTGAGTGCCGTCTGGGGCCACTGTNAGATCCGAATGCGCTACT
TGAACGGACTCGATCCCGAGACNTGCCGCTCATGGATTTGTGCCGTCGCTCGGTGCGCCTGGCCCTG
GGGAGGGAGCGCCTGGGGGAGAACCANACCTGCCGCTGCCGGCTTCCCTCAAGGCCTACCTCCTCT
ACCAGTGACGTTCGCCATCATACCGCCAGCGCGACAGCCACCTGGTGCCAACTCACTGAGCCGCCTG

Figure 43



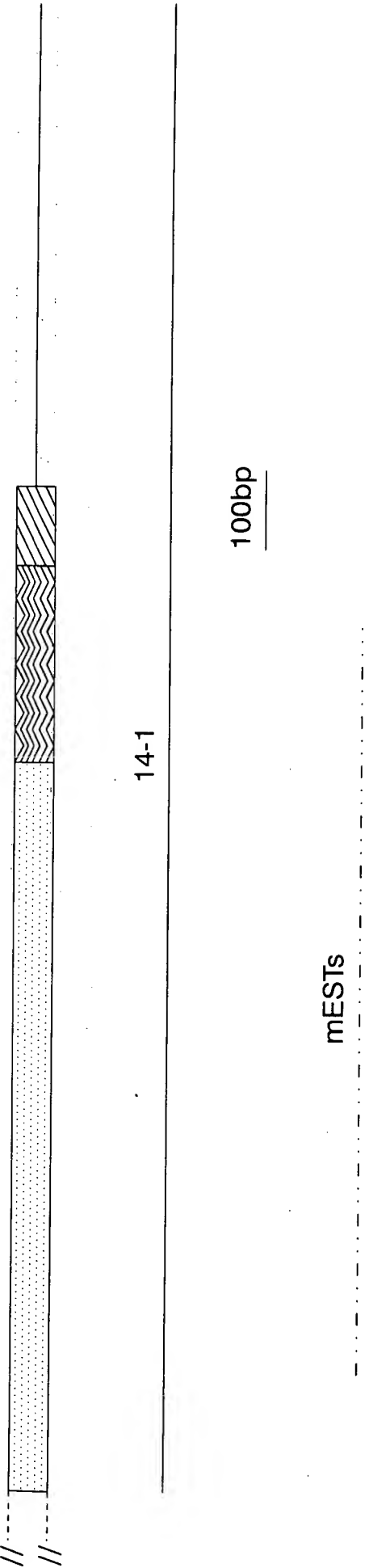


Figure 44

... AAGTGGCGGTCCTGGAGAGCAGCGGAGGCAAGTCTGACTCTGGGCTGACCGTGAGCCGGGGGGGGCTGACAGCCAGGCCT
CCGCTGGCGGAGCCGCACGAGGAGCGGAGTGCGCGGCTCTTCCGCGCTTGAGCGAGCGCCGGGTGATGGCGGTGGTGATGGCGGACAGGC
GCTCGGACAGCTCCGCTTGAGCTGAGCTCGGAGAGATCCGTCAGAAAGTCCCGAGAAACTTCCCTTTAGAAAAAGCTGAAAAACACARTATTT
ATAACACTGGAAATTGTAAAGAATTGTTTAAATGGCTGAAAAACAATAGTAAAAATGTAGATGTACGGCCCTAAAAACAAGTCGGAGTCGAAGTGCT
GACAGGAAGGATGGTTATGTGTGGAGTGGAAGAAGTTGTCTTGGTCCAAAAAGAGTGAGAGTTGTTCTGAATCTGAAGCCATAGGTACTGTGTGAG
AATGTTGAAATTCCCTTAAGAAAGCAAGAGCAGCTTAGCTGTTCGTCCATTGAGTTGGACTTAGATCATTCCTGTGGGCATAGATTTTTAGGC
CGATCCCTTAAACAGAAACTGCAAGATGCGGTGGGCGAGTGTTCCTCAATAAAGAAATGTAGTGGCCGACACTCTCCAGGGCTTCCATCTAAAAAGA
AAGATTCAATCAGTGAACCTCATGTTAGATAAGTGCCTTCCACCTCGCTCAGATTTAGCCTTTAGGTGGCAATTTATTAAACGACACACTGTT
CCTATGAGTCCCAACTCAGATGAATGGGTGAGTGCAGACCTGTCTGAGAGGAACTGAGAGATGCTCAGCTGAAACGAAAGAAACACAGAAGATGAC
ATACCTGTTTCTCACATACCAATGGCCAGCCTTGTGTCAATACTGCCAACAGTGTCTCGTGTACAGGTGTCACATAACTGTTCTATGATGAAC
TTGGTCACAAAACACAGCATAGAAGACAGTGACATGGATTACAGAGGATGAAATTATAACGCTGTGCAAGCTCCAGAAAAAGGAAATAAGCCAGG
TGGGAAATGGAAGAGGAGATCCTGCAGTTGGAGGCACCTCCTAAGTTCACACCCAGATCGACTACGTCCACTGCTTGTTCAGACCTCCTTCAG
ATCAGTAACAATCCGTGCTACTGGGGTGTCAATGACAAATATGCAGCCGAAGCTCTGCTGGAAGGAAAGCCAGAGGGCACCTTTTACTTCGAGAT
TCAGCGCAGGAAGATTATTTATTTCTCTGTTAGTCTTACAGTCTACAGTCTGTTCTCTTCACTAGTAATTTGAGCAGTGAATCAATACTTTAGCTTT
GATGCCCATGATCCTTGTGTCCTTCCATTTCTCTGATATTACTGGGCTCCTGGAACACTATAAGGACCCAGTCCCTGTATGTTCTTTGAGCCGCTC
TTGTCCACTCCCTTAATCCGGACGTTCCCTTTTCTTGACGATATTTGCAGAAACGGTTATTTGTAAATTGTAACGACTTACGATGGCATCGATGCC
CTTCCCATTTCTTCGCTATGAAATTGTATCTGAAGGAATACCATATAAATCAAAAGTTAGGTTACTCAGGATTGATGTGCCAGAGCAGCAGTGA
tgcggagaggttagaatgtcgacctgcatacaatatttcatttaatttttatttttcttatgcctcttgaattttgtacaaaggcagttgaat
caataaaaactgtgccctaagttttaattccagatcaatttttttttatgatacaccttgttatataattttaagcaggtgtttgggttttgttt
ttaccataaaattacatatgttccaggcatatttacaatttcaaggcatgtgcatacatatttgaataattctgtattttttaaataatcttttgt
tctttcctatgtgaaatattttgcataatctatgctatcagtatcttgcgtatgaccgaatagttacctattctcttttcatcttgaagattttca
gtaaagagtggttagaatcaatccattataatgacttttgttaatttgccaataggagtggttaaacaacaaatgatttaaaatgaaactta
atgtattttcattttaaatataactaaaccaaagtttgtttgttagttattctagccaataagaaaagagaatgtagcatcctagaggtgtatttg
ttctgcagtttggcaggaccgtcagttagtcctaaataaacatccccctcagcgtggagcggaatggaaacctgtgctcctttcttacggggaagctttg
caagcaaaaatagcaggggttacaagcttgagttgttaaggcaactagagtttctctatttaattatagactgtgtgtgcacctactagctctt
ttttgggaactctagttcccagggggaataacctcgtgcc

Figure 45A

Appln. No. 08/962,560
Notice of Allowance Dated 8/10/04
Replacement Sheet

....SGGPPWRAGGSGKSDSGLTVEPGRGLTARPPPGGSRTRSGSGRASLPRLSERRVMAVMAAGARTAPLELSSERS
VQKVPRRNFLEKLKNTXFITLEIVKNLFKMAENNSKNVDVRPKTSRSDRKGDVVWSGKKLSWSKKSESCSESEAIG
TVENVEIPLRSQERQLSCSSIELDLHSCGHRFLGRSLKQKLQDAVGQCFFIKNCSGRHSPLPSKRKIHI SELMLDKCP
FPFRSDLAFRWHFIKRHTVPMSPNSDEWVSADLSERKLDAQLKRRNTEDDIPCF'SHTNGQPCVITANSASCTGGHITGS
MMNLVTNNSIEDSDMDSEDEIITLCTSSRKRKNKPRWEMEEIILQLEAPPKFHTQIDYVHCLVPDLLQISNNPCYWGVMDK
YAAEALLEGKPEGTFLLRDSAQEDYLFVSFRRYSRSLHARIEQWNHNFSDAHDPCVFHSPDITGLLEHYKDPSCMFF
EPLLSTPLIRTFPFSLQHCRTVICNCTTYDGIDALPIPSPMKLYLKEYHYKSKVRLRLRIDVPEQQ*

Figure 45B

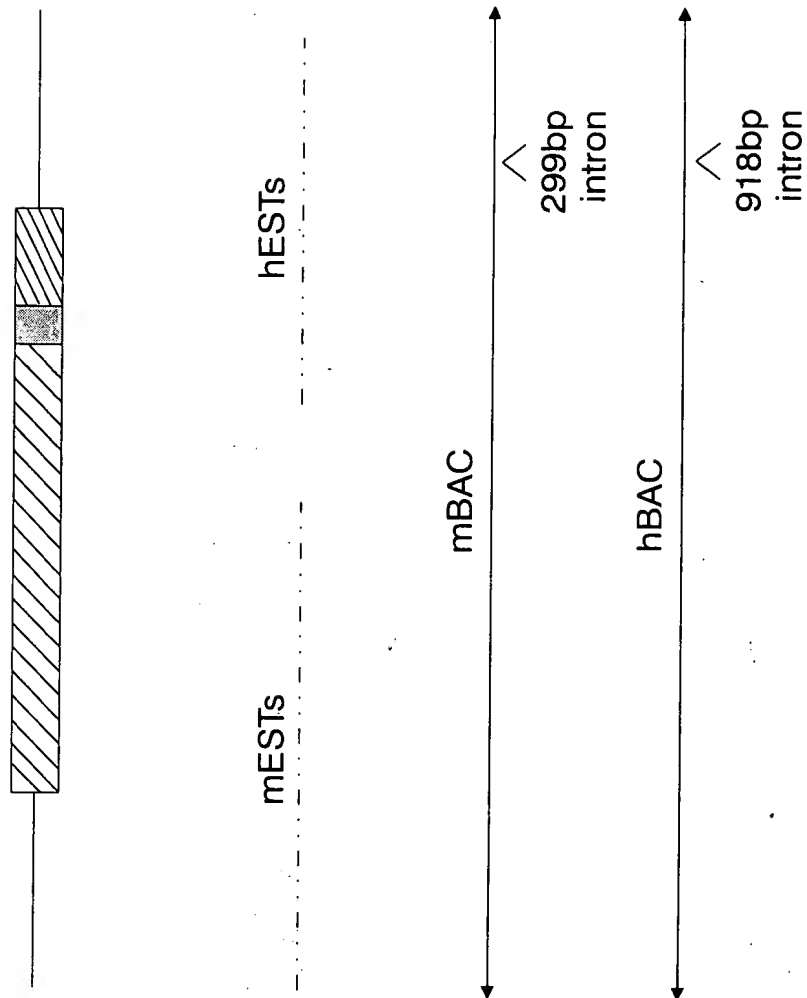


Figure 46

[illegible]

Figure 47A(i)

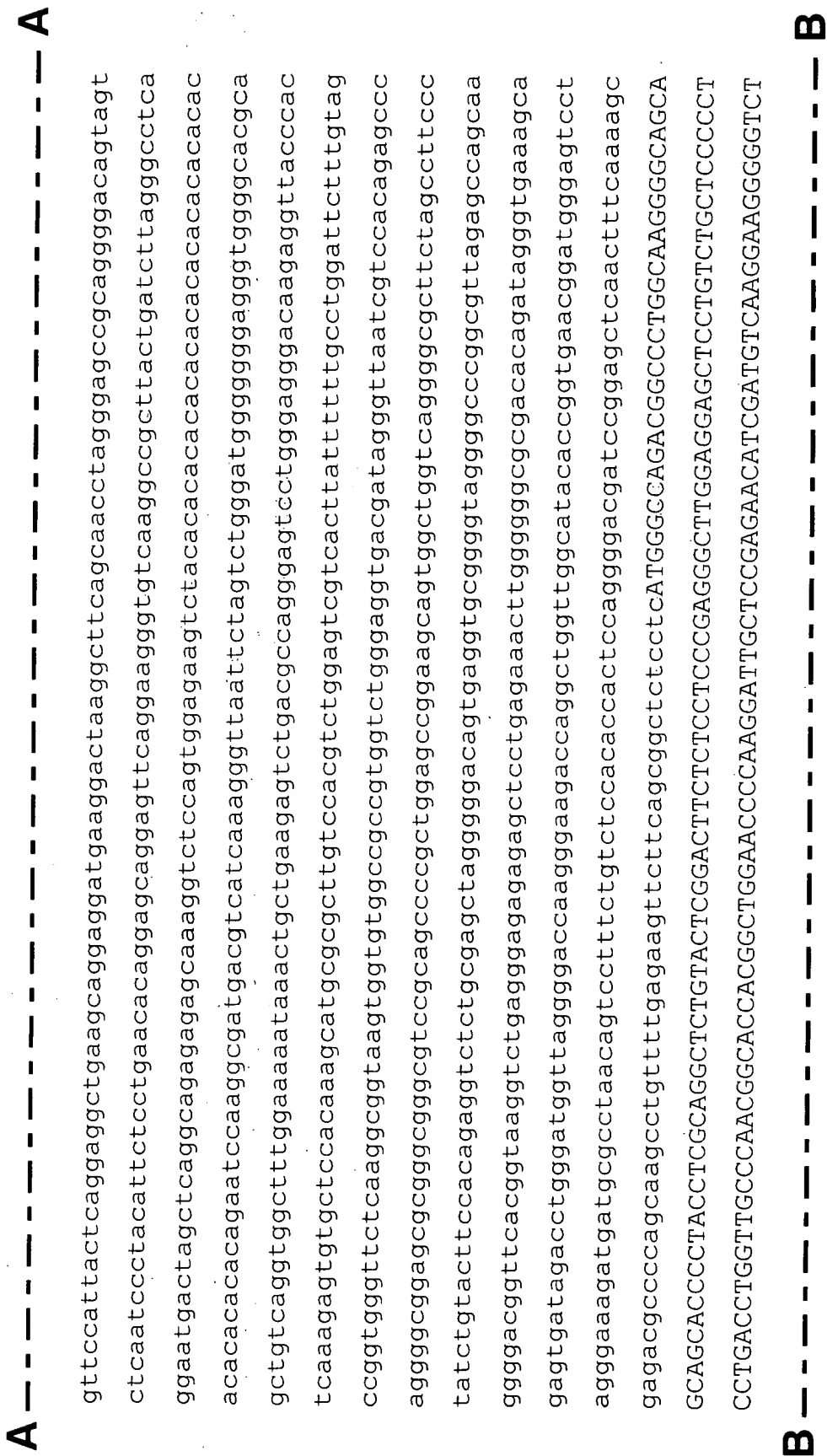


Figure 47A(ii)

B-----B

GTGCTTTGAGCGCGCCCTGTGGCCCAAGAGCACTGATGGAGTCCGGGGGAAACGGGGCTATTGAGAGGTCTGCACGCCCT
GGGAGATCAGCTGGCCCCCTGGAGCAAAGGGGCACACACGCCCTGGTGGCGTGGCCACCCGCCCTCGCCCCGCTGCAGGCT
GACCACTATGCGCGCTTTTGGGCAGCAACAGCGAGTCCTGGGGCTGGGATATTGGCGGGGAAATTTGTATCATCAGAG
TAAGGGCCTCGAGGCCCCCAGTATCCAGCTGGACCTCAGGGTAGCAGCTAGTGGTGCCAGAGAGACTGCTGGTGGTTC
TGGACATGGAGAGGGGACTCTTGGCTACTCTATTGGGGGCACGTACCTGGGACCAGCCTTCCGTGGACTGAAAGGGGAGG
ACCCCTATCCCTCTGTAAGTGCTGTTGGGGCCAGTGCCAGGTCGGCATCCGCTACATGGGCGAAAGAGAGtgagat
acggactaggtgtgggagatcactactcttgcaatggtttgggctggaaactcatggttggagcacaggaagtaggct
tcttgtcactttggcctgtcacttagatggccttgatctagcttcaatccatccctatttgatgtgacacaaatt
cagagcctttgggtctccctcagctgaggtggcggtggaatggaggaagaagggtgcctgagcaggatctcaagt
tcaaggatgcctggagttgcttacttacctgtcttctctctccgcagTGGAGGAACCAATCCCTTCTGCACCT
GAGCCGCCCTGTGTGCGCCATGCTCTGGGGACACCCGGCTGGGTCAAATATCCACTCTGCCTTTGCCCCCTGCCCATGA
AGCGCTATCTGCTTACAAATGAcccagtagtacaggtgtgctggcacccctaccgtgggacaggtggagagggcaccg
ctggcctagacaaactttaaaaagctggtgaagctgggggggggctggaccccttcaccccttctcacaggagca
agacataagaaatgatattaaacaccatggcagcctgggacaaaagaggttttgaagtaaaaaatgagatgtattgtca
caacctgtttcattattgtttttgtttttacactccccacccaggtagagccccatcactgtctttaaggaat
tatgacaacccacaagctcagggccagggtgtttattcccttacatgtaggtgttcacaaacacacaggggctt
tggcaccgtggggagggaactatcccaggcctcttaggtctcataccgaattcagacccgaaagctctgaattt

C-----C

Figure 47A(iii)

C-----C

ctgcatcagacatccagtagaaacttggagtagagccaaggcccatctaagtgcagggccaaagtgcacgaagc
ccacttcctgtgtctccaaccatgagtttccagcccaaaccaatggaaagtgatttcacttgtcagggcccaaggacag
tcagttctactccctccctcactagagccaccttggtagagttgattctaccactgtaagtggtaaagggttggc
ctggtcccaaccataatagggcggtgaaacggctcaggagggtacagcgtgattaggccacaagatggggcagatgat
gtcatcagaagcatgtgaccggtgggagcagttactaaacttctgggcaacctagtcctatgctatgcaggcaggtagag
gatgggcagtgctcattgtttggcattgatgatgtccacaaaattcaggcttgagagatgcgccaccacaaaggaaagccgt
ccacgtcaggctggcttgcagctcttgcagggttgcaggtcacagaacctgtaccaggaaacaagaagacagtttgggt
caggtctatgatcagaacacttaagccccacctctctgtgcaaggcagcctcagtcgtcttagcccatcttccgtcttag
ctagagccaaagccactcacctccataaaatgatccgggtgctctgagccaccccatcattgacattggatttcagccatc
cccggagcttctcgtgtacttccctgtgcctagaaggaggagcagagctactaagtaagctccttctctatctattca
aggagtaaaaccactggttctcacatagagttgagtttccagaaaaagccccgggaccagagagtggaaggctccaatc
ccaccaggcttggaatgaacatttttggcaaaagtcactctccttggtagtttggggccctctgtctctaaaagggtt
ggatggggtcccatagctgtgtgagctctgttaaagccggacaggtctgaggagctctgggtagttacctgctgaggggttgc
cgtcttgccagtcaccaatggcccacacaggttcataggccaggacccttgctccagtcctttcacattatctgtggggc
agagaggagagtgagtaggaaggagctgacccgccaagc]

Figure 47A(iv)

Appln. No. 08/962,560
Notice of Allowance Dated 8/10/04
Replacement Sheet

MGQTALARGSSSTPTSQALYSDFSPPEGLEELLSAPPPDLVAQRHHGWNPKDCSENIDVKEGGLCFERRPVAQSTDGVRGK
RGYSRGLHAWEISWPLEQRGTHAVVGVATAPLQADHYAALLGSNSESWGWDIGRGKLYHQSKGLEAPQYPAGPQQEQVLV
VPERLLVVLDMEEGTLGYSIGGTYLGPAFRGLKGRRTLYPSVSAVWGQCQVRIRYMGERRRVEEPOSLLHLSRCLCVRHALGDT
RLGQISTLPLPPAMKRYLLYK

Figure 47B

gtactttcttataatccataattttattactattactacatgatacattattttataaaagtctttgtaacctcctt
aggattcactgcttaattctccagtgcttagcacaaatcattaaatgcgaaccagaaactcttccaaatgtgttacatct
ataacctcattggattctcactaccaccccatgcaatagataactaatgtgatctctgtcttacagaggaagaaacaggc
acaggaggttcagtaatttgcccaaggtcatacacacactggccttcaggattcattcatgcccggggagtctggtcccaca
gctggcatgtttgccattatatattgcctccttatagtgtcggcactcattaagcacattgacagctatgcttggtg
agtactactatgtaccagctctgtgtacatgctttacctggattatttcaactgcacaacacccctgtgaggttaact
accatcatgctcctattttacataacagaaaaactacagaaatctggggctggcgtagtggtcacacctgtaattctcagcacttt
gcactttgggagaccctgtctctaaaaaaatttttttggccggacgtgggtggtcacacctgtaattctcagcacttt
gggaggctaaggcaggcagatcacaaaggtcaggagttctagaccagcctggccaacatggcaaaacccctgtgtctactaa
aaatacaaaaaatagctaggctggtggcaggtgctgtaatcccagctactcaggaggctgaggcaggagaatcccctg
aacctgggagatggaggttacagagagccgagatcgtgccgtgcactccagcctgggcaacaagagcaagactctgtct
cgaaaaaaataaaaaataaaaaatattttttaaaaaattagctgggtgtggtagcacatgcctgtagtcccagcta
cttgggaggtgaggtaggagatcacttgagccagagggtcaaggctgcagtgggctgtgatggcgccactgcactct
agccttggtgacagcaagaccctgtctcaaaaaaaaaaaaaagagaaatcgggcaacttccccaaagatcgcgcagttaac
tagtggcatagcttcaactcaaacgcgaagtcttaatcaggacactctaccaaatgagatcaacggctcagtaatggattg

A-----A

Figure 48A(i)

A-----A

gcaccagatgaagactggaccagcaggagaaactatgatgcgtacagccctagagcctgaagcagatttcacagcctca
gaggtggcacaggctgactcacaaaccggggcagaaaaggaccagccagaaacagtgaccagaaatcacagggaaagtag
aaatgggattcggcacaaatgaagccccctcttgaccccatgctccttacccctcagggcgccagaggtagtcgctcaggc
ggctcaaaaggctcttgacgggtggagaacaccatccccagggatcccgacgcgggtgatgccatcaaaagcgttaattctgag
atgggcctgcccgggtgaggactctgccgcagcaagaagggttaactgccccggccttcgccgtggggcggggcct
cgggagggtcacagccccgggactgagacccgagggttaaccgccccgggtgggtccacggggcggggcgatgtctctccg
cggctgctgccggtatagcggtaactgcccaggaggggggggccccacagggcggtggcctcggagctgcacggccc
gtggcgcgcatgagagggttaagccccagaggccccctggaggggcgggcgccggacgggtcggccccaaaggaggag
ctggggcggaagcgccgggtctgcgccctgcgcctcggtcttccggcctccttcagaggccccggcgac
ctccagggtgggaagtcaaccgaggttcggggcagcggcgagggtccggcgagtaagggggatggtcccatgctgag
gccccaaatggggcgaactcgcgagagtctctggcgacctggatcagatggggcgagggcagatgaaggccccaggagctt
tggggcagcgaggaggagcgggcccggttgccaaacttgggtgaaaggatggggtacctgggtgacgagccccccgccc
aggattctgctctcacgccccctttctccagctcccttcagggtcaatccaaactggagctcaacttcaagaagagaa
agacgccccagcaagcctcttctggggagtcctctagctcctcacctccATGGCCAGACAGCTCTGGCAGGGGGCAGCA

B-----B

Figure 48A(ii)

B

B

GCAGACCCCCACAGGCCCTGTACCTGACCTCTCTGTCCCGAGGGCTTGGAAGAGCTGCTGTGCACCCCT
CCTGACCTGGGGCCACGGCCACGGTTGGAACCCCAAAGACTGTTCAAGAACATCGAGTCAAGAAAGGAGGTT
GTACTTTAGCGGGCCCGTGGCCACAGCACTGATGGGGCCCGGGTAAGAGGGCTATTCAAGGGCCCTGCACGCCT
GGGAGATCAGCTGGCCCCCTAGACAGAGGGCACGCATGCCGTGGTGGCGTGGCCACGGCCCTCGCCCCGCTGCAGACT
GACCACTACGGCGCTGCTGGCAGCAACAGCGAGTCGTGGGCTGGGACATCGGGCGGGGAAGCTGTACCATCAGAG
CAAGGGCCCGAGCCCCAGTATCCAGCGGGAACAGGTGAGCAGCTGGAGTGCCAGAGAGACTGCTGGTGGTTC
TGGACATGGAGGAGGAACCTCTGGGTACGCTATTGGGGCACCTACCTGGGGCCAGCATTCGCGGACTGAAGGGCAGG
ACCCTCTATCCGGCAGTAAGCGCTGTCTGGGCCAGTGCCAGGTCCGCATCCGCTACCTGGGCGAAAGGAGAGgtgaggc
ctggggcagacgtgggagaactttctgtccctggtggcagtggtttgggatggaaactcttctgacaagagcagagggg
atggaccttcacagcctgcctcaacctctgttcagtgctgggaaaggctaggggtctcacagctgttatttaattta
acccaacagcaatagaggtgaaacaggcttgagaaagcaactttctcaagttctcttgccagtaaatggtgaaccttca
gaatggagggaactgcagggatgagagaattcaggagatatcaacccctgagcaagaggtgcaaaagcgttaggtact
gggtttgatgtacaggtccaaaagaaggatgggcagagccaggtaccaggctgtataccggattccctgggctctaacc
tgtctctgtgccacatacctacttccttcctcagccacacctctggatggagacactggggccctgggcaccaggagga

C

C

Figure 48A(iii)

C

gtcaagcctggccagctccaccactgtcagagccaccttggcctgttgttagagggccttagccagctcttcacccc
cagctctgactaggatgtgtgaaatcttatctgtggaggcagaacttcgggtatctcaaatccccctttcagccagggtg
ggcacactcgaagcaggaaagcagaaagcatctgagtaggaccccgtagtttgaggacatctggctggctgcaccc
atacttacattccccctccttctctctcccagCGGAGCCACACTCCCTTCTGCACCTGAGCCGCCCTGTGTGCGCCACAA
CCTGGGGGATACCCGGCTCGGCCAGGTGTCTGCCCTGCCCTTGCCCCCTGACATGÄAGCGCTACCTGCTCTACCAAGTGAG
ccctgtgataccacagactgtgctgaggtcttgccaccacccctcccccttggggaggtggggaggcactgctggcctaga
ccagctgctgaaagctggtgaggctgagccccctaccccaacccaagctctcggaatatcaacagccccagagccacttgg
aggaggaagaaaggagccggttcaaaggctatgacagtctgtctacgcaaaaacattttttcaagtaaaaaatagtaaga
gatgtgttatagaaacctgttctgttttttttttcttgcacaaatgatcatttatatagctgcctcaaaaaggaa
gattatctgggcaagtccagtgaaggcagacaaaccacacacctaagtgccaggtttattccctcacatgggtggttcac
atacacagcacagagggcacggccaccatgggagagggcagcactcctgccttctgaggggatcttggcctcacgggtgtaa
gaaggagaggatgggttctcttctgcccctcactagggcctagggaacccaggagcaaatcccaccacgccttccatctc
tcagccaaggagaagccaccttggtgacgttttagttccaaccattatagtaagtggagaaggattggcctgggtcccaac

D

Figure 48A(iv)

D-----D

cattacagggagaagataaaacagtaaaaggaagatacacagtattggatgagccacaggaaggagcagatgacaccatcag
aagcatatgcagggaaggcagttactgggcttctgggctgcttagtccctggcttgccaggaaggtagggaagatgg
atggggctcatgtttggcattgatgtccacgaattcgggcttgagggaagcaccacccacaaggaagccatccaca
tcaggctggctggccagctccttgagggtgccccagtcacagagcctgggaaggagcagaacaaggcttggtcaaga
atgggatgagctgccccatccccacctccatgtccgagggctcagtcagtctcctcagccactccacctcagccgggaa
ccaaagccactcacctccataaatgatacgggtgctctgagccaccgcacatcagagacgttggaacttcagccatcctcgg
gcttctcgtgtacttcctggcctagaacaagaagctggcctaagtaagaccttttctgcctctctaagaggaataatca
ctggcaccagtggaacacttagtggtttctgactgagtcagagtaccagggctctgatccaagccagggccctggactgg
atgccccttggaacaagtcaactgtctctgggttcaaggctctgtgtctttgaaataaagggttgccccatgtgggctgtgt
ctgtccaaacctattgaggcaggctgggatgagggcagggtcctcctggccccggttacctgttgggtgttgcaagtcttgc
cagtaccaatggccccacacaggctcatagggcaggacgaccttgctccagtcctcacgttatctgcagggcagagatac
agatggagggaagggtgaacaagaagagctctccagccagggttctccggagtacgaagaacgggtggcctactgccccct
agtggacattggggg

Figure 48A(v)

Appln. No. 08/962,560
Notice of Allowance Dated 8/10/04
Replacement Sheet

MGQTALAGSSSTPTPQALYPDLSCPEGLEELLSAPPDLAGQRRHGWNPKDCSENIEVKEGGLYFERRPVAQSTDGARGK
RGYSRGLHAWEISWPLEQRGTHAVVG VATALAPLQTDHYAALLGSNSESWGWDIGRKLYHQSKGPGAPQYPAGTQGEQLE
VPERLLVVLDMEEGTLGYAIGGTYLGPFRGLKGRITLYPAVSAVWGQCQVRIRYLGERRAEPHSLHHISRLCVRHNLGDTR
LGOVSALPLPPAMKRYLLYQ

Figure 48B

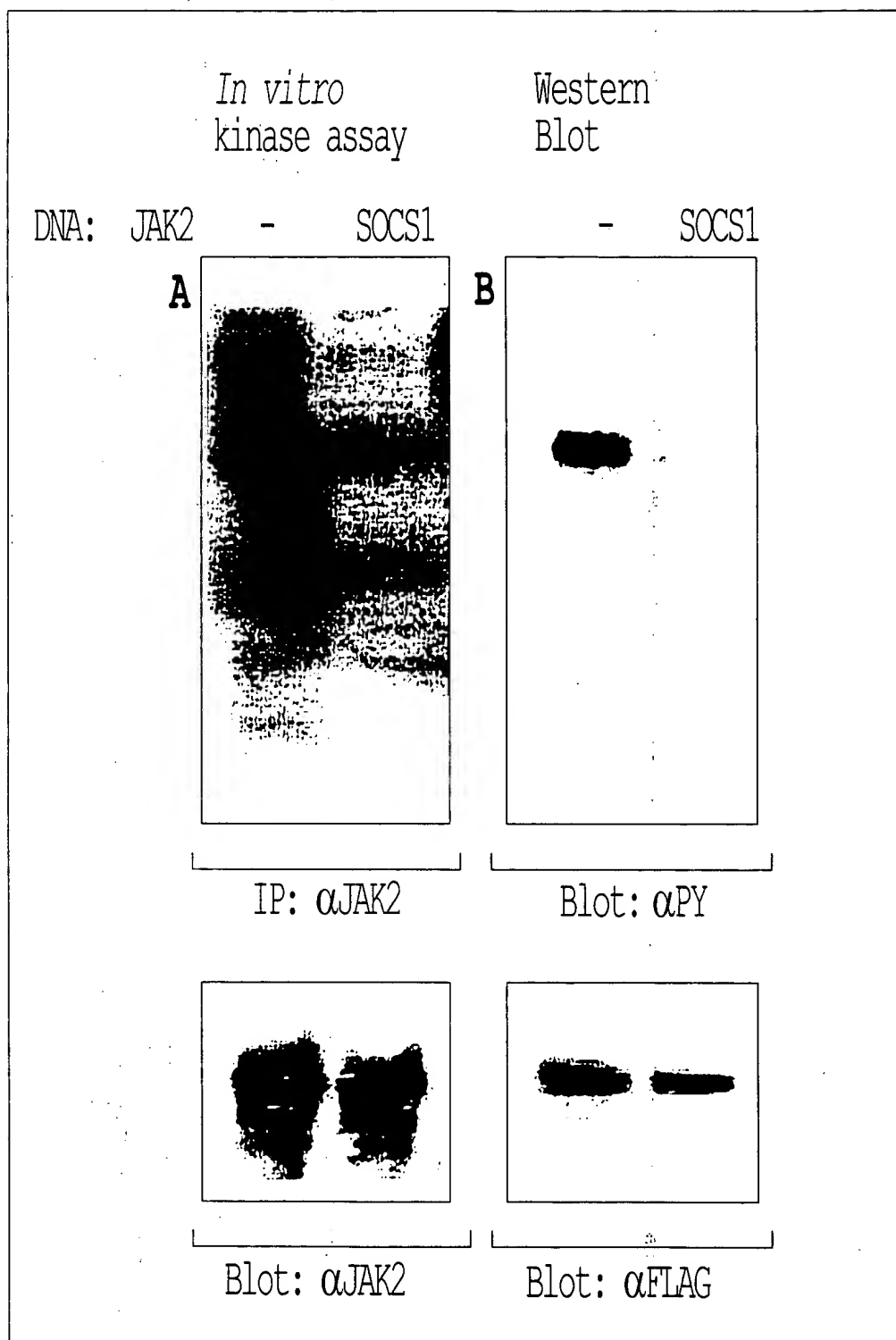


Figure 49

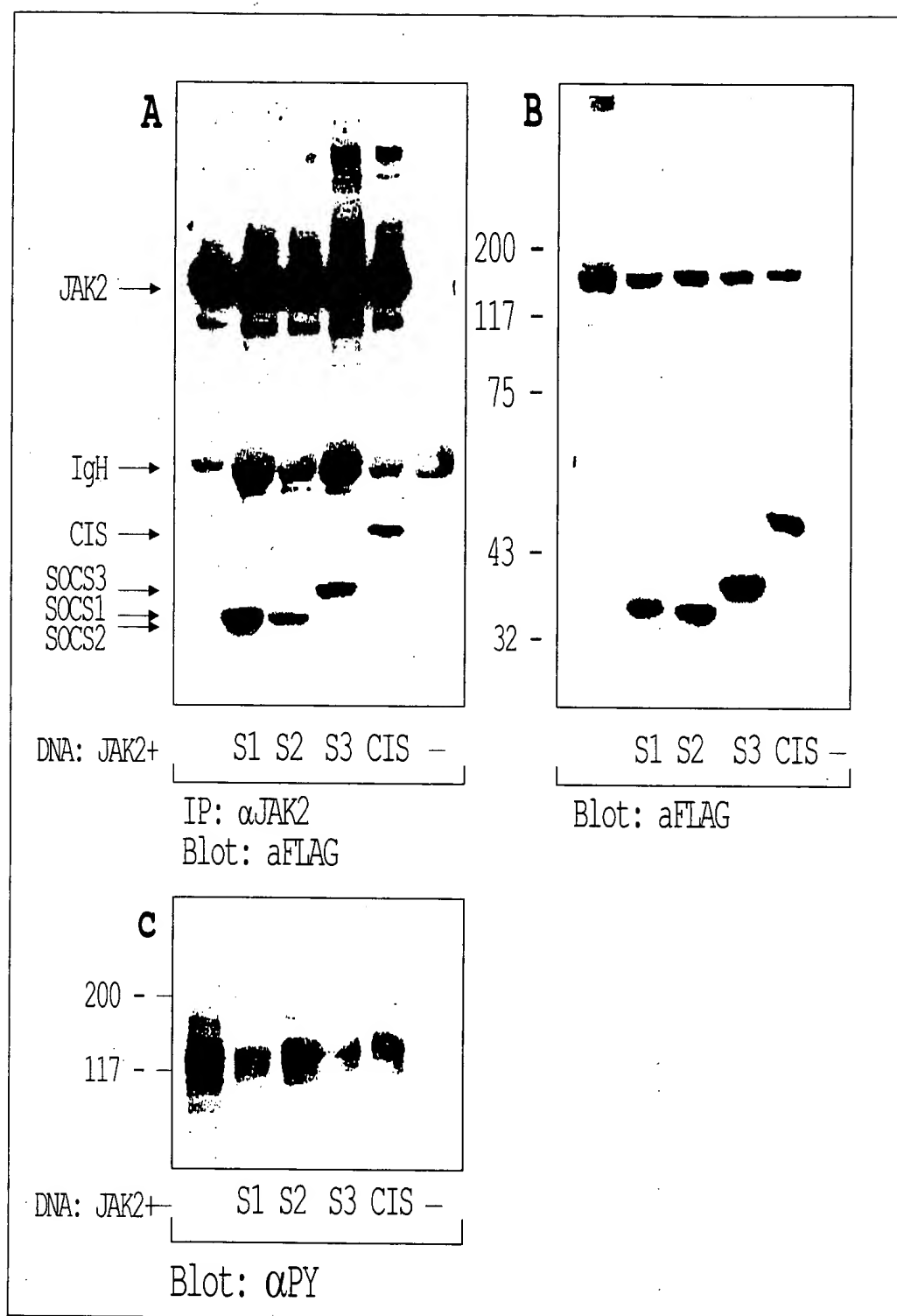
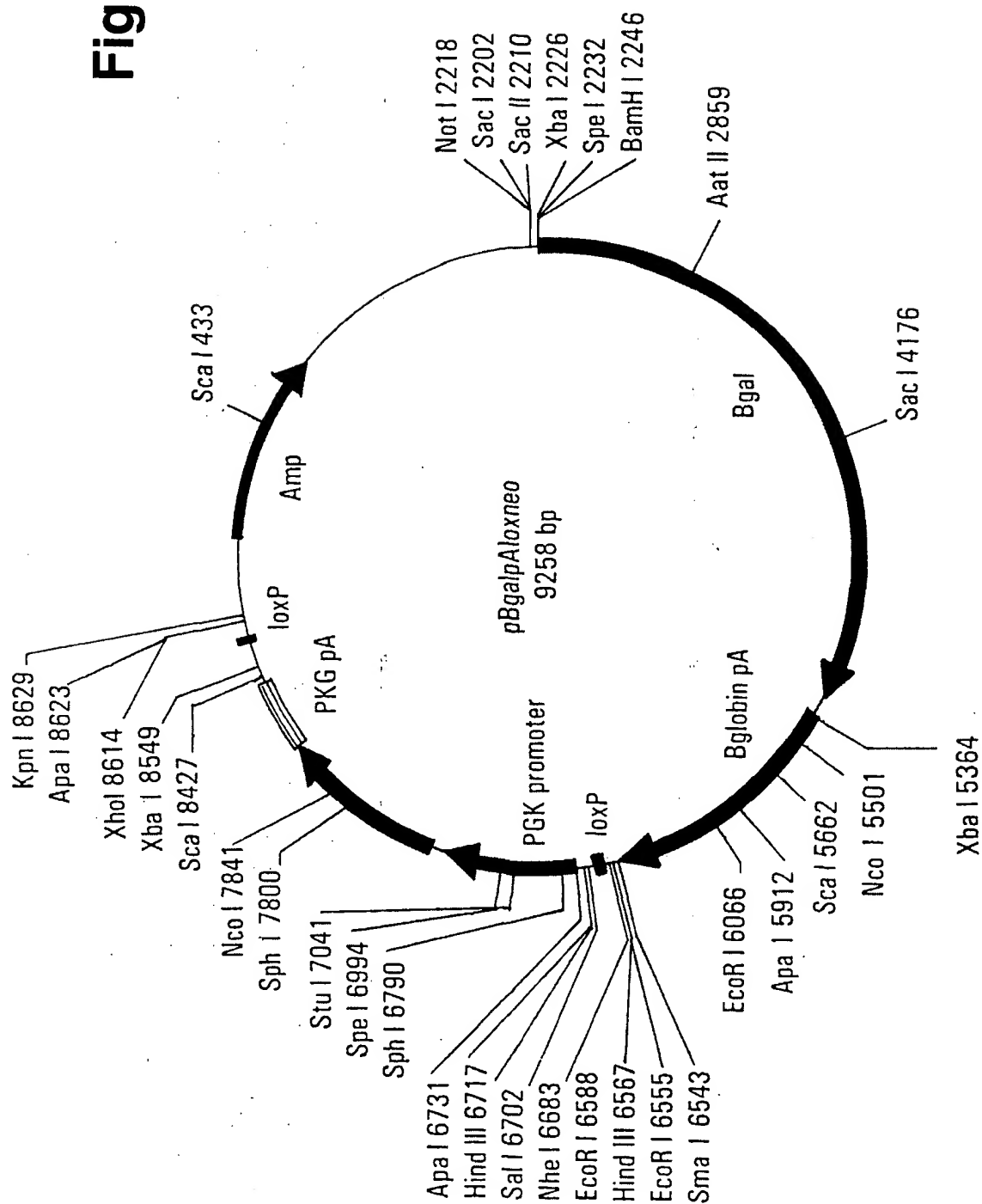
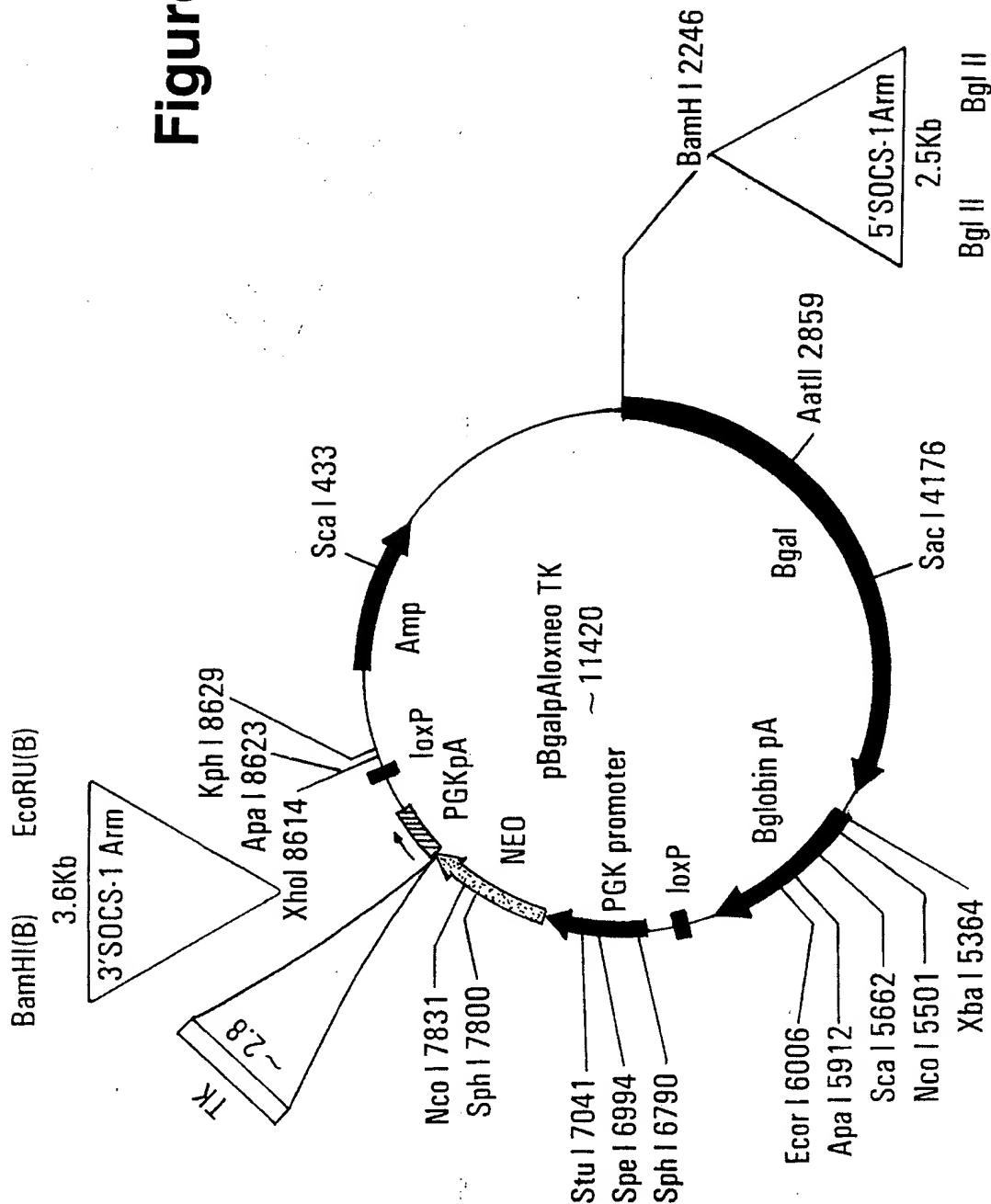


Figure 50

Figure 51





5'x3' SOCS-1 Arms in pBgalpAloxNeoTK

Figure 52

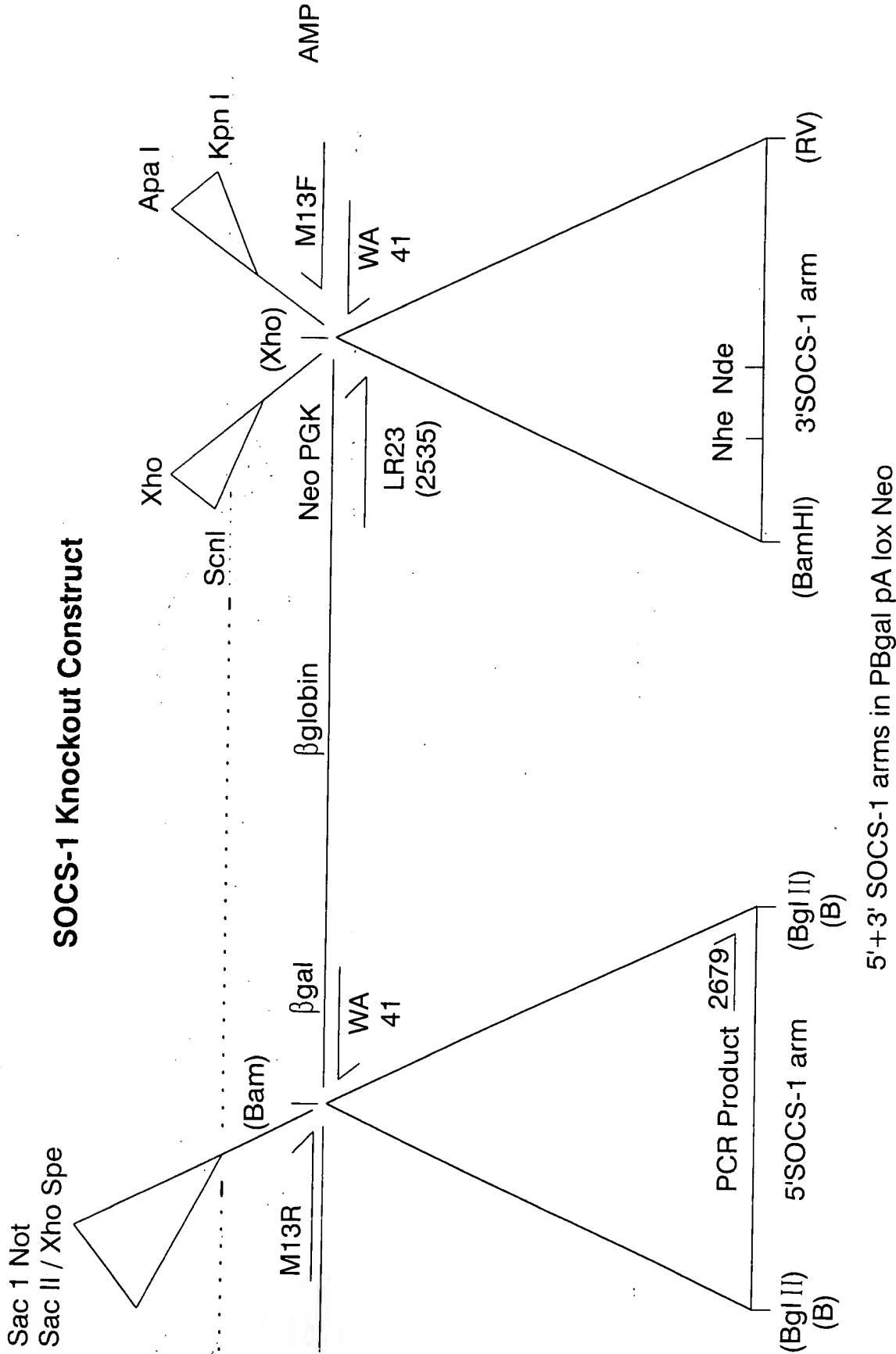


Figure 53

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☒ FADED TEXT OR DRAWING
- ☒ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☒ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.